



Rainwater harvesting
The complete System



Product Catalogue

Rainwater Harvesting

For Commerce, Trade,
Crafts and Industry

Edition 20



*The NEW
Sigma rainwater
unit (page 22)*



Now new for all
WISY Rainwater Units:
Standby Consumption is
50 times less - 0,2 Watt only!

made
in
Germany





The production shop floor for rainwater filters in Hitzkirchen.



Bird's eye view of the production plant in Hitzkirchen.

Rainwater storage tank production



Assembly line for rainwater units.



Exporting ideas from Kefenrod to the whole world ...

WISY rainwater harvesting

WISY AG has its company headquarters in Hitzkirchen, a small town surrounded by meadows and forests within the boundaries of the Vogelsberg nature recreation area in Hesse, Germany.

The company began producing rainwater filters in 1989. Thanks to its unique filtering concept and its success in systematically developing its product range, WISY AG quickly grew to become the leading manufacturer of high-quality rainwater harvesting systems. **WISY is now securely established as a global supplier of rain harvesting products with partners in over 40 countries.** In addition to manufacturing high-quality products, the company has always understood the impor-

tance of product-specific training. **In an in-house training centre, more than 10,000 installers and distributors have since received instruction in the fundamental principles of rainwater harvesting.** WISY is a founder member of the German Association for Rainwater Harvesting and also participated in the DIN committees which drew up the currently applicable standards.

The durability and reliability of its products are a distinctive feature of the WISY brand.

WISY's products have consequently found use in many thousands of projects around the world, especially where

professional rainwater harvesting solutions are required. It is in public buildings in particular - schools, hospitals, and fire stations, for example - that WISY products can guarantee a reliable rainwater

supply. Private home owners appreciate the ease of use and the extremely low maintenance requirements of WISY's systems.

The name WISY is synonymous with quality and durability!

We wish you a great deal of enjoyment from our products.

Arnold Denk

Jan Maurer

Managing Board of WISY AG

Examples of our reference projects



Rio de Janeiro:

WISY installed 18 large rainwater filters at the Maracana football world cup stadium in Rio de Janeiro. The rainwater is used to irrigate the playing turf and supply water to sanitary facilities. Rainwater is ideal for watering grass playing surfaces at all kinds of sport facilities.



Brewery near Nuremberg:

Rainwater is collected from this brewery's roof area of around 1200m² and cleansed by 3 WFF 150 vortex filters. The rainwater is stored in a tank with 60 m³ storage capacity and used to cool the beer during the brewing process.

WISY 4-stage rainwater cleansing principle	4	Complete rainwater harvesting installations	
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Roanoke, Virginia USA:

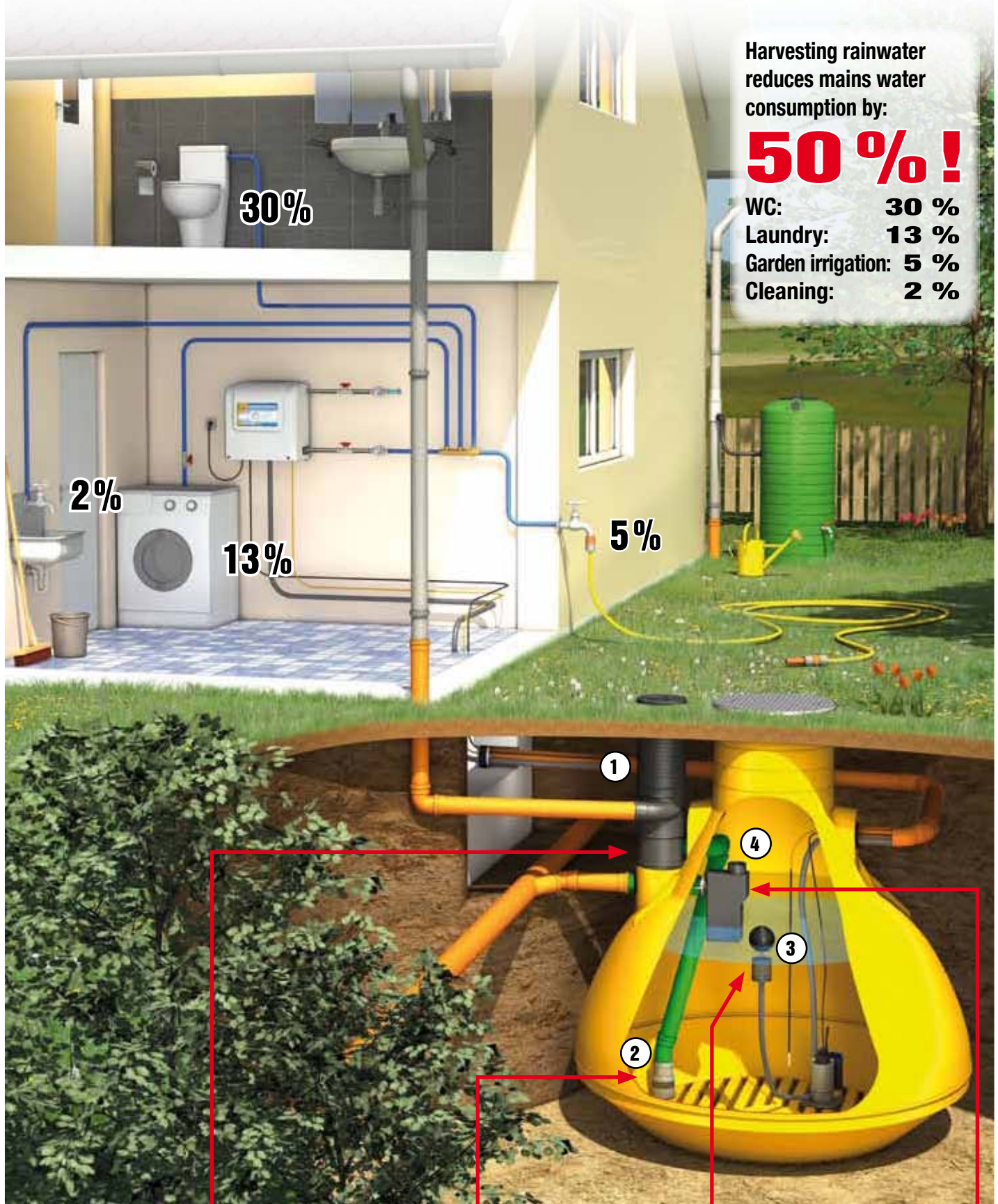
2 WISY WFF 150 vortex fine filters cleanse the rainwater harvested from the roof surface. The filtered water is used directly as extinguishing water to fill the fire engines. It is also used to irrigate the gardens and supply water to sanitary facilities.



Single-family home:

With 3 downspout/downpipe filters, the rainwater from the roof and annex is cleansed and stored in an underground tank with 5.5m³ storage capacity. The filtered water is drawn out of the tank by the Optima rainwater unit and used to supply water to sanitary facilities and the garden irrigation system.

The WISY 4-stage rainwater cleansing principle in the single-family home



Stage 1

Filtering with WISY vortex fine filter with separation of dirt particles and oxygen enrichment

Stage 2

WISY smoothing inlet prevents resuspension of sediment and distributes the fresh, oxygen-rich water in the storage tank

Stage 3

Water is extracted with the WISY floating suction filter suspended at the optimum height

Stage 4

Overflow with skim effect, odour seal, vermin guard and backflow prevention with WISY multisphon

The WISY filter systems installed in a downspout/downpipe (FS and STFS) or underground (WFF) are an integral component of rainwater harvesting systems.

As a general rule, the roof drain is installed as a „gravity drain system“. The rainwater flows towards the storm drain or soakaway system through gutters, downspouts/downpipes, collecting and underground pipes. It is therefore important to ensure that the cross section of piping in the flow direction of the water is not restricted.

The WISY filter systems installed in the downspout/downpipe

or underground pipe guarantee that water can drain safely away from the roof areas of the building.

At the same time, the drainage pipes and the installed filter systems must be dimensioned to handle the flow rates (or „volumetric flow“) of drainage water from the connected roof areas.

Table indicating the drainage capacity of collecting and underground pipes (in which WISY filter systems are installed) according to DIN EN 12056

Filter collector (FS)	for DN 100 (3.9 in.)	4.2 l/s
Standpipe filter collector (STFS)	for DN 100 (3.9 in.)	4.2 l/s
Vortex fine filter	WFF 100 (3.9 in.)	4.2 l/s
Vortex fine filter	WFF 150 (5.9 in.)	12.8 l/s
Vortex fine filter	WFF 300 (11.8 in.)	80.6 l/s

For horizontal pipes: The max. flow rates of inflowing water apply when the connecting pipes are installed at a 1% gradient and a max. pipe fill level of 0.7.

Using the drainage capacity of collecting and underground pipes as a basis, it is also possible to calculate the max. roof area which can be connected to the system. As a basic guide, WISY specifies the approximate size of roof area which can be connected to individual filters. *These values apply to climatic conditions in Germany.*

Important:

Special installation measures must be taken when WISY filters are installed in pressure drainage systems. Please contact our technical support for further advice!

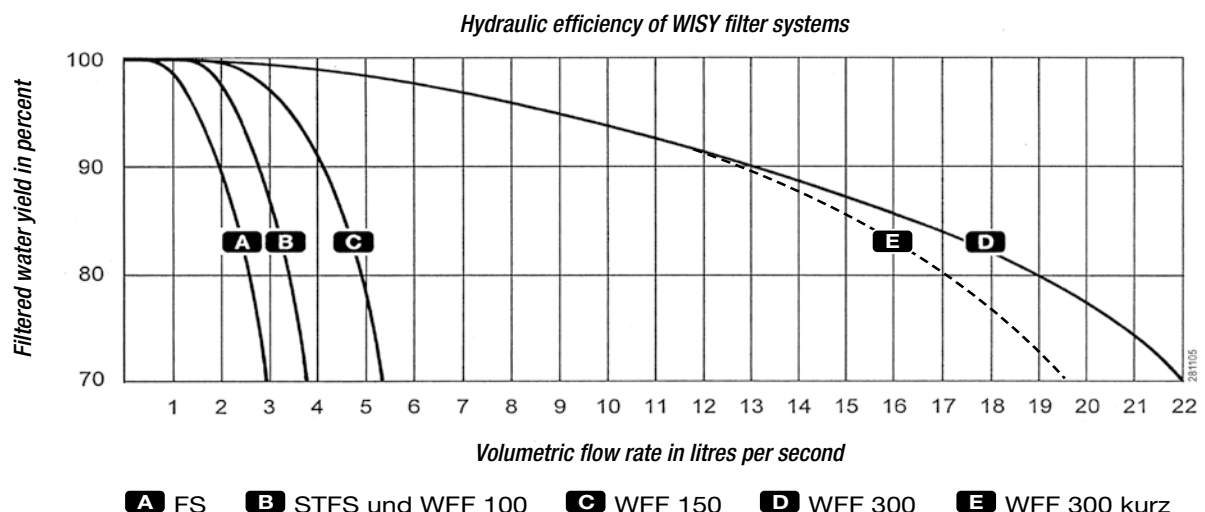
Efficiency of WISY filter systems

According to WISY's own research, the average efficiency (or „hydraulic efficiency“) of WISY's filter systems is over 0.9 or 90%, i.e. more than 90% of the water flowing into the filter from the roof is filtered before it flows into the storage tank. The remaining water passes into the storm drain or soakaway system with any dirt particles separated out during the cleansing process. The specified level of hydraulic efficiency refers to around 99% of all rainfall events in Germany and Central Europe. The filter efficiency is lower (around 40-60%) owing to the increased volumetric flow of water in only about 1% of rainfall events.

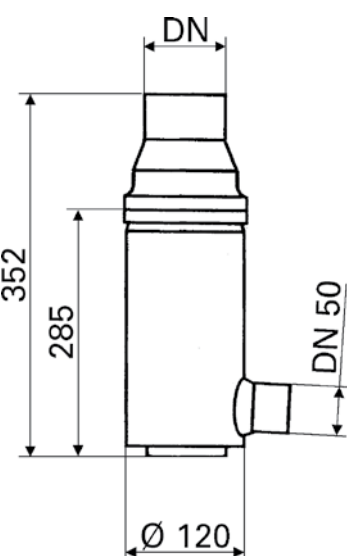
The majority of individual rainfall events fill the drainage pipes to less than 0.3 or 30%.

Example:

A building with a projected roof area of 500 m² (5382 sq. ft.) for which a WFF 150 is installed. The volumetric flow of water into the WFF is 2.78 l/s during a rain shower of average intensity, i.e. 5m/m² in 15 minutes (the same as 5 litres/m² in 15 minutes). In the chart below, this flow rate corresponds to a hydraulic efficiency of over 95%.



Rainwater filters for installation in downspouts/downpipes (filter collectors)



Rainwater filters for installation in downspouts/downpipes made of metal or plastic. Consisting of upper housing, housing pot and filter insert. Housing optionally available in stainless steel (VA), zinc (ZN) or copper (CU). Filter insert for all variants made of stainless steel, filter mesh size 0.28 mm (0.01 in.) (basic version) or 0.44 mm (0.02 in.), low maintenance.

It is recommended that the filter be washed in a dishwasher. Outlet to the rainwater storage tank: DN 50.

Drainage safety according to DIN EN 12056 / EN 752, complies with DIN 1989.

► *Stainless-steel housings can be installed in zinc or copper downspouts/downpipes without risk of galvanic action*

For metal downspouts/downpipes, mesh size 0.28 mm (0.01 in.) Da = outside diameter of downspout/downpipe Item No.

Stainless-steel housing version <i>with 0.28 mm (0.01 in.)</i>			
FS 100 VA for nominal size (DN) 100 (3.9 in.)	Da 102 mm (4.0 in.)		FS 03 03
FS 87 VA for nominal size (DN) 87 (3.4 in.)	Da 89 mm (3.5 in.)		FS 03 02
FS 80 VA for nominal size (DN) 80 (3.1 in.)	Da 82 mm (3.2 in.)		FS 03 01
FS 76 VA for nominal size (DN) 76 (2.9 in.)	Da 76 mm (2.9 in.)		FS 03 05
Zinc housing version			
FS 100 ZN for nominal size (DN) 100 (3.9 in.)	Da 102 mm (4.0 in.)		FS 01 03
FS 87 ZN for nominal size (DN) 87 (3.4 in.)	Da 89 mm (3.5 in.)		FS 01 02
FS 80 ZN for nominal size (DN) 80 (3.1 in.)	Da 82 mm (3.2 in.)		FS 01 01
FS 76 ZN for nominal size (DN) 76 (2.9 in.)	Da 76 mm (2.9 in.)		FS 01 05
Copper housing version			
FS 100 CU for nominal size (DN) 100 (3.9 in.)	Da 102 mm (4.0 in.)		FS 02 03
FS 87 CU for nominal size (DN) 87 (3.4 in.)	Da 89 mm (3.5 in.)		FS 02 02
FS 80 CU for nominal size (DN) 80 (3.1 in.)	Da 82 mm (3.2 in.)		FS 02 01
FS 76 CU for nominal size (DN) 76 (2.9 in.)	Da 76 mm (2.9 in.)		FS 02 05

For metal downspouts/downpipes, mesh size 0.44 mm (0.02 in.) Da = outside diameter of downspout/downpipe Item No.

Stainless-steel housing version <i>with 0.44 mm (0.02 in.)</i>			
FS 100 VA for nominal size (DN) 100 (3.9 in.)	Da 102 mm (4.0 in.)		FS 04 33
FS 87 VA for nominal size (DN) 87 (3.4 in.)	Da 89 mm (3.5 in.)		FS 04 32
FS 80 VA for nominal size (DN) 80 (3.1 in.)	Da 82 mm (3.2 in.)		FS 04 31
FS 76 VA for nominal size (DN) 76 (2.9 in.)	Da 76 mm (2.9 in.)		FS 04 35
Zinc housing version			
FS 100 ZN for nominal size (DN) 100 (3.9 in.)	Da 102 mm (4.0 in.)		FS 04 13
FS 87 ZN for nominal size (DN) 87 (3.4 in.)	Da 89 mm (3.5 in.)		FS 04 12
FS 80 ZN for nominal size (DN) 80 (3.1 in.)	Da 82 mm (3.2 in.)		FS 04 11
FS 76 ZN for nominal size (DN) 76 (2.9 in.)	Da 76 mm (2.9 in.)		FS 04 15
Copper housing version			
FS 100 CU for nominal size (DN) 100 (3.9 in.)	Da 102 mm (4.0 in.)		FS 04 23
FS 87 CU for nominal size (DN) 87 (3.4 in.)	Da 89 mm (3.5 in.)		FS 04 22
FS 80 CU for nominal size (DN) 80 (3.1 in.)	Da 82 mm (3.2 in.)		FS 04 21
FS 76 CU for nominal size (DN) 76 (2.9 in.)	Da 76 mm (2.9 in.)		FS 04 25

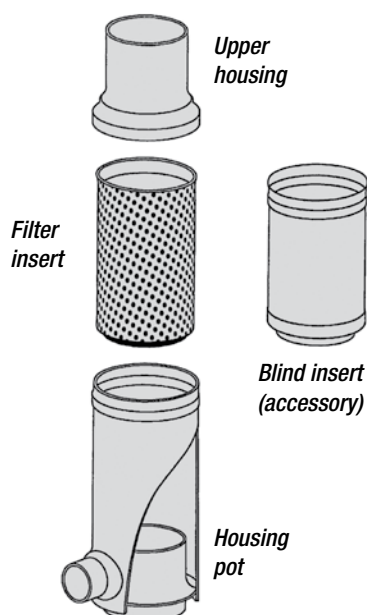
Rainwater filters for installation in downspouts/downpipes (filter collectors)

For plastic downspouts/downpipes, mesh size 0.28 mm (0.01 in.) **Da = outside diameter of downspout/downpipe** **Item No.**

● Stainless-steel housing version		with 0.28 mm (0.01 in.)	
FS 110 VA for nominal size (DN) 100 (3.9 in.)	Da 110 mm (4.3 in.)		FS 03 04
FS 76 VA for nominal size (DN) 70 (2.8 in.)	Da 75 mm (3.0 in.)		FS 03 05
● Copper housing version			
FS 110 CU for nominal size (DN) 100 (3.9 in.)	Da 110 mm (4.3 in.)		FS 02 04
FS 76 CU for nominal size (DN) 70 (2.8 in.)	Da 75 mm (3.0 in.)		FS 02 05

For plastic downspouts/downpipes, mesh size 0.44 mm (0.02 in.) **Da = outside diameter of downspout/downpipe** **Item No.**

● Stainless-steel housing version		with 0.44 mm (0.02 in.)	
FS 110 VA for nominal size (DN) 100 (3.9 in.)	Da 110 mm (4.3 in.)		FS 04 34
FS 76 VA for nominal size (DN) 70 (2.8 in.)	Da 75 mm (3.0 in.)		FS 04 35
● Copper housing version			
FS 110 CU for nominal size (DN) 100 (3.9 in.)	Da 110 mm (4.3 in.)		FS 04 24
FS 76 CU for nominal size (DN) 70 (2.8 in.)	Da 75 mm (3.0 in.)		FS 04 25

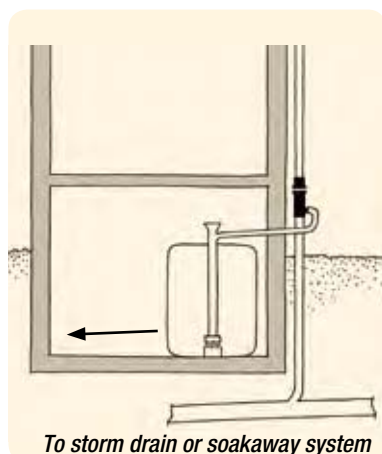


Components/spare parts **Item No.**

● Upper housing, please state nominal size		
made of zinc	(ZN)	FO 01 00
made of copper	(CU)	FO 02 00
made of stainless steel	(VA)	FO 03 00
● Housing pot, please state nominal size		
made of zinc	(ZN)	FT 01 00
made of copper	(CU)	FT 02 00
made of stainless steel	(VA)	FT 03 00
● Filter insert made of stainless steel, for all nominal sizes, height 17.5 cm (6.89 in.)		
Mesh size 0.28 mm (0.01 in.)		FE 03 00
Mesh size 0.44 mm (0.02 in.)		FE 03 01

Accessories **Item No.**

● Blind insert made of stainless steel (VA), for all nominal sizes		BE 03 01
Ensures direct throughflow of water to the storm drain or soakaway system, during winter operation or maintenance		

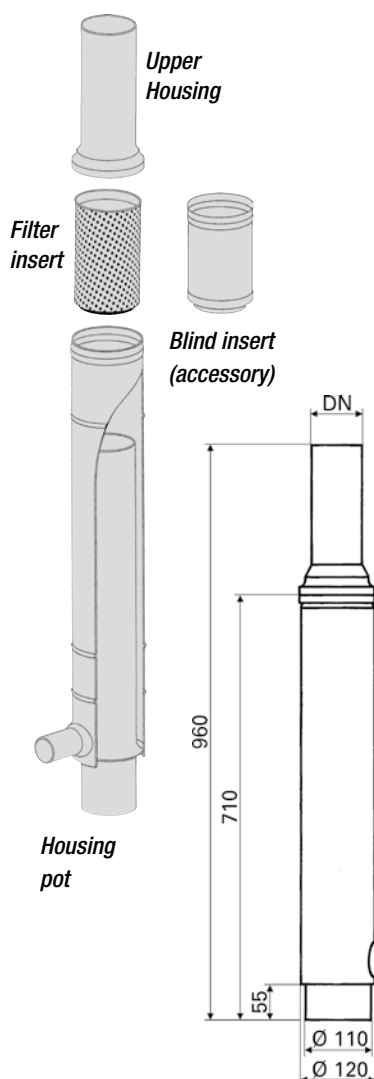


WISY filters with fine filtering
guarantee optimum operational reliability,
separation of all dirt particles and
absolute drainage safety!

Standpipe filter collector (STFS)



Standpipe filter collector (STFS)



Rainwater filter and standpipe in one component for installation in the rainwater downspout/downpipe or underground, functions as both standpipe and filter collector, prevents back-flow. Consisting of upper housing, housing pot and filter insert. *All parts made of stainless steel.* Filter mesh size 0.28 mm (0.01 in.) (basic version) or 0.44 mm (0.02 in.), extreme low maintenance. It is recommended that the filter be washed in a dishwasher. Outlet to the rainwater storage tank: DN 50. Outlet to storm drain for sewer pipe: DN 100.

Drainage safety according to DIN EN 12056 / EN 752, complies with DIN 1989.

For metal downspouts/downpipes, mesh size 0.28 mm (0.01 in.) Da = outside diameter of downspout/downpipe Item No.

with 0.28 mm (0.01 in.)

- STFS 100 VA for nominal size (DN) 100 (3.9 in.) Da 102 mm (4.0 in.) SF 03 03
- STFS 87 VA for nominal size (DN) 87 (3.4 in.) Da 89 mm (3.5 in.) SF 03 02
- STFS 80 VA for nominal size (DN) 80 (3.1 in.) Da 82 mm (3.2 in.) SF 03 01
- STFS 76 VA for nominal size (DN) 76 (2.9 in.) Da 76 mm (2.9 in.) SF 03 05

For metal downspouts/downpipes, mesh size 0.44 mm (0.02 in.) Da = outside diameter of downspout/downpipe Item No.

with 0.44 mm (0.02 in.)

- STFS 100 VA for nominal size (DN) 100 (3.9 in.) Da 102 mm (4.0 in.) SF 04 33
- STFS 87 VA for nominal size (DN) 87 (3.4 in.) Da 89 mm (3.5 in.) SF 04 32
- STFS 80 VA for nominal size (DN) 80 (3.1 in.) Da 82 mm (3.2 in.) SF 04 31
- STFS 76 VA for nominal size (DN) 76 (2.9 in.) Da 76 mm (2.9 in.) SF 04 35

For plastic downspouts/downpipes, mesh size 0.28 mm (0.01 in.) Da = outside diameter of downspout/downpipe Item No.

with 0.28 mm (0.01 in.)

- STFS 110 VA for nominal size (DN) 100 (3.9 in.) Da 110 mm (4.3 in.) SF 03 04
- STFS 76 VA for nominal size (DN) 70 (2.8 in.) Da 75 mm (3.0 in.) SF 03 05

For plastic downspouts/downpipes, mesh size 0.44 mm (0.02 in.) Da = outside diameter of downspout/downpipe Item No.

with 0.44 mm (0.02 in.)

- STFS 110 VA for nominal size (DN) 100 (3.9 in.) Da 110 mm (4.3 in.) SF 04 34
- STFS 76 VA for nominal size (DN) 70 (2.8 in.) Da 75 mm (3.0 in.) SF 04 35

Components/spare parts

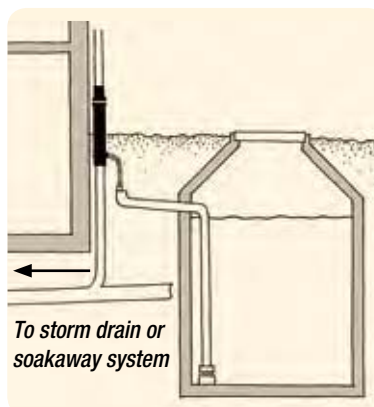
Item No.

- Upper housing made of stainless steel (VA), *please state nominal size* SO 03 00
- Housing pot made of stainless steel (VA) ST 03 00
- Filter insert made of stainless steel (VA), *for all nominal sizes, height 17.5 cm (6.89 in.)*
 - Mesh size 0.28 mm (0.01 in.) FE 03 00
 - Mesh size 0.44 mm (0.02 in.) FE 03 01

Accessories

Item No.

- Blind insert made of stainless steel (VA), *for all nominal sizes* BE 03 01
Ensures direct throughflow of water to the storm drain or soakaway system, during winter operation or maintenance.
- Stainless-steel standpipe clip (VA) with screw (10 x 120) and wall plug. For secure attachment. SF 03 10



WISY filters for every application

WFF 100

for roof areas up to
about 200 m² (2153 sq. ft.)



WFF 150

for roof areas up to
about 500 m² (5382 sq. ft.)



WFF 300

for roof areas up to
about 3000 m² (32,291 sq. ft.)



Standpipe filter collector STFS

for roof areas up to
about 200 m²
(2153 sq. ft.)



Filter collector FS

for roof areas up to
about 150 m² (1614 sq. ft.)



Garden rainwater collector GRS

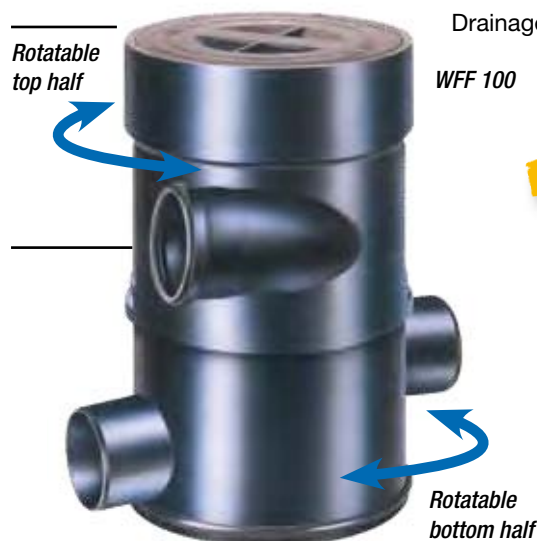
for roof areas up to
about 80 m² (861.11 sq. ft.)

Vortex fine filter WFF 100 (up to 200 m²/2153 sq. ft.)

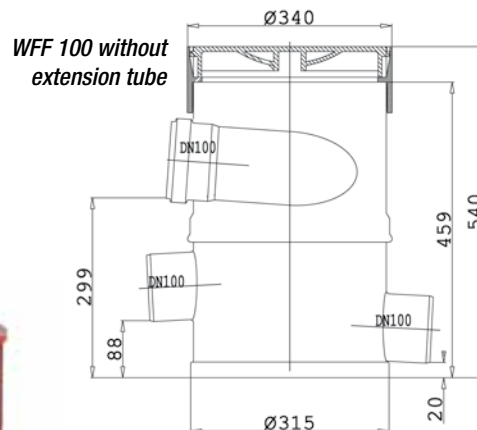


Rainwater filter for installation in horizontal rainwater pipes underground or in the open air (e.g. for industrial applications). Basic version with 50 cm (1.6 ft.) extension tube for raising the inspection opening to ground level. Optionally available without extension tube. Freely rotatable rainwater inlet. *Tested to German standard ATV: Vehicle-duty capacity up to 30 t.* Polypropylene housing (PP). Stainless-steel filter insert, low-maintenance. It is recommended that the filter be washed in a dishwasher. Filter mesh size 0.28 mm (0.01 in.) (basic version) or 0.44 mm (0.02 in.).

Drainage safety according to DIN EN 12056 / EN 752, complies with DIN 1989.



30t vehicle-duty capacity
 Tested to German standard ATV
 Vehicle-duty capacity up to 30t
 Vehicles as defined by DIN 1072/SLW 30



Rainwater inlet DN 100

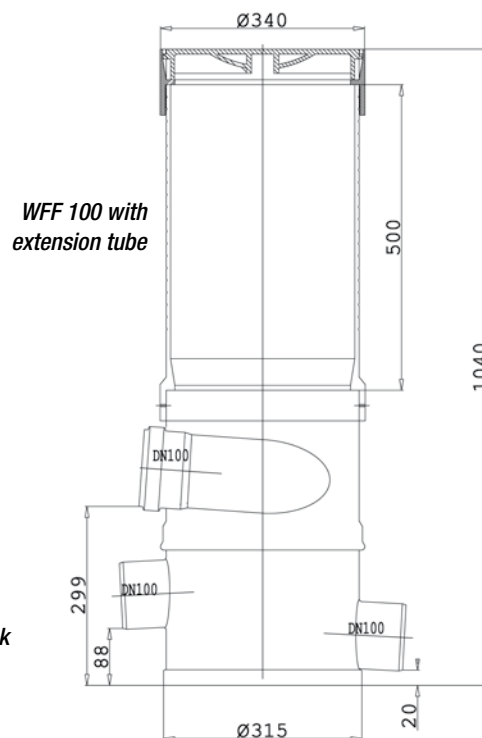
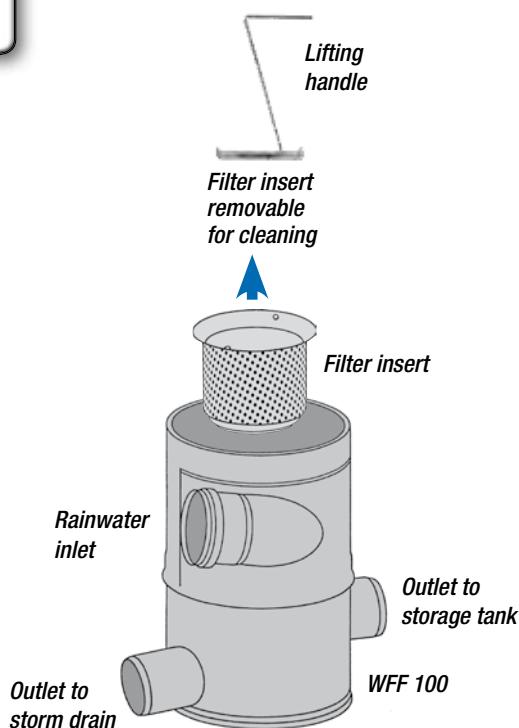
NEW
 Five-year guarantee
 on all vortex filter
 materials.

Benefits of WISY filters

- Guarantees safe drainage
- Separates/filters out all dirt particles
- Oxygen enrichment by vortex action
- Low maintenance requirements
- Excellent water yield

Filtered water outlet to storage tank DN 100

Dirty water outlet to storm drain or soakaway DN 100



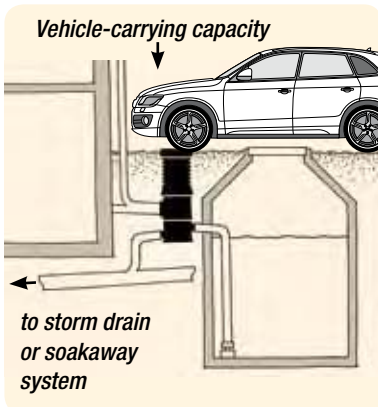
Vortex fine filter WFF 100 (up to 200 m²/2153 sq. ft.)



WFF 100 with soakaway strainer



Wall-mounting
bracket



Vehicle-carrying capacity

to storm drain
or soakaway
system



Wall bracket for
concrete rainwater
storage tank

Vortex fine filter WFF 100

Item No.

consists of housing, end ring with housing cover and lifting handle (30 cm/11.8 in.) in the following versions:

● WFF 100 with extension tube	filter insert 0.28 mm (0.01 in.)	WF 20 11
● WFF 100 with extension tube	filter insert 0.44 mm (0.02 in.)	WF 20 12
● WFF 100 without extension tube	filter insert 0.28 mm (0.01 in.)	WF 20 02
● WFF 100 without extension tube	filter insert 0.44 mm (0.02 in.)	WF 20 01

► All WFF 100 filters are optionally available with a round spirit level for easy, upright installation of the vortex filter. See page 15.

Components/spare parts for WFF 100

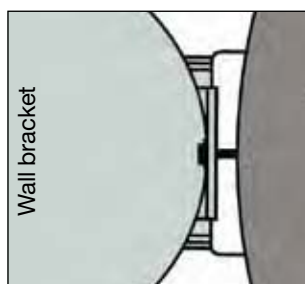
Item No.

● Housing cover	WN 10 02
● End ring	ZW 10 00
● Filter insert made of stainless steel (VA), height 15.5 cm (6.10 in.)	
Mesh size 0.28 mm (0.01 in.)	WE 03 05
Mesh size 0.44 mm (0.02 in.)	WE 03 06
● Stainless-steel lifting handle (VA)	
to lift out filter insert for maintenance	
Length 30 cm (11.8 in.) (standard)	WA 03 01
Length 63 cm (2 ft.)	WA 03 02
Length 100 cm (3.3 ft.)	WA 03 03
● Demonstration model WFF 100:	
Prepared for demonstration purposes	WS 20 01

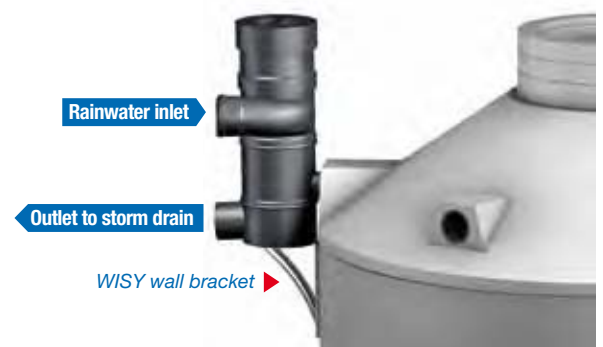
Accessories for WFF 100

Item No.

● Additional extension tube	WV 10 10
length 50 cm (1.6 ft.) made of polypropylene (PP) to raise the inspection opening to ground level. The extension tubes are fitted with a collar to fit the filter housing. Cutting lines around outer circumference make it easy to cut the tube accurately to the required mounting depth.	
● Blind insert made of stainless steel (VA)	
Ensures direct throughflow of water to the storm drain or soakaway system, during winter operation or maintenance.	
(not illustrated)	BE 03 05
● Stainless-steel soakaway strainer (VA)	
For trapping the fine and coarse dirt from the rinsing and excess water if the water is released into an underground soakaway system rather than a storm drain. Mesh size: 1.6 mm (0.06 in.)	VS 03 04
● Stainless-steel wall-mounting bracket (VA)	
for installing filter on a vertical wall	WH 03 03
● Stainless-steel wall bracket (VA)	
for concrete rainwater storage tank	WH 04 00



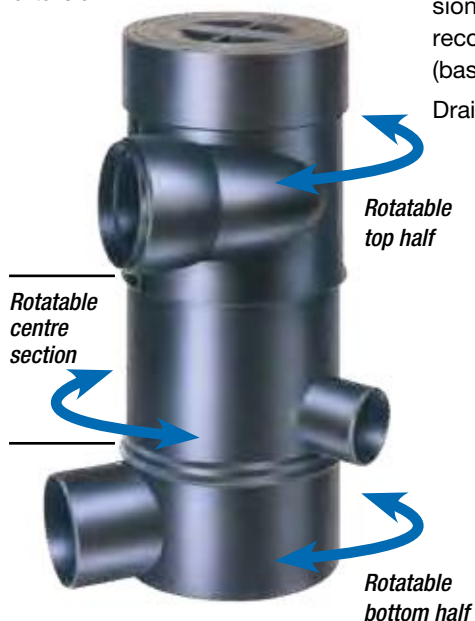
For secure attachment: The wall bracket can fit any curvature of storage tank.



WISY wall bracket ►

Vortex fine filter WFF 150 (up to 500 m²/5382 sq. ft.)

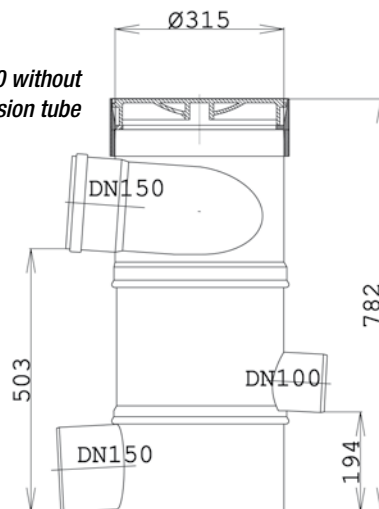
WFF 150 without extension



Rainwater filter for installation in horizontal rainwater pipes underground or in the open air (e.g. for industrial applications). Basic version with 50 cm (1.6 ft.) extension tube for raising the inspection opening to ground level. All tube connections can be freely rotated. **Tested to German standard ATV: Vehicle-duty capacity up to 30 t.** Optionally available without extension tube. Polypropylene (PP) housing. Stainless-steel filter insert, low-maintenance. It is recommended that the filter be washed in a dishwasher. Filter mesh size 0.28 mm (0.01 in.) (basic version) or 0.44 mm (0.02 in.).

Drainage safety according to DIN EN 12056 / EN 752, complies with DIN 1989.

WFF 150 without extension tube



Rainwater inlet DN 150

Benefits of WISY filters

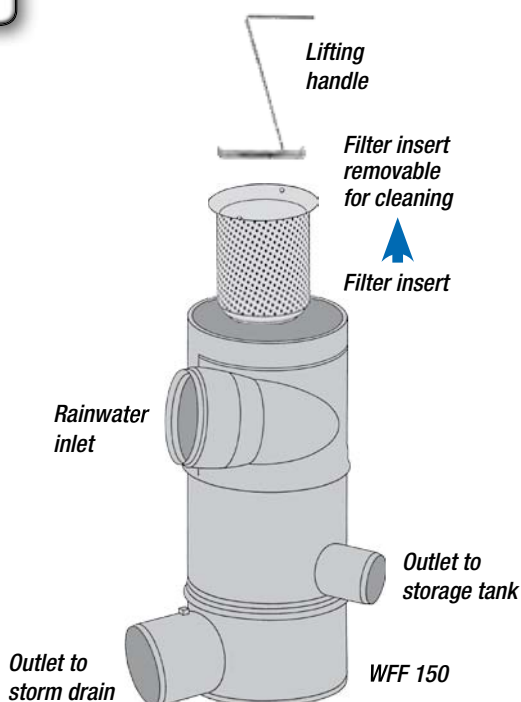
- Guarantees safe drainage
- Separates/filters out all dirt particles
- Oxygen enrichment by vortex action
- Low maintenance requirements
- Excellent water yield

Filtered water outlet to the storage tank DN 100

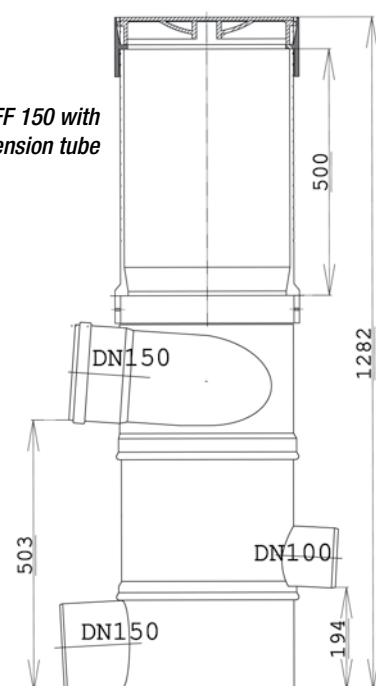


Dirty water outlet to storm drain or soakaway DN 150

30t vehicle-duty capacity
 Tested to German standard ATV
 Vehicle-duty capacity up to 30t
 Vehicles as defined by DIN 1072/SLW 30



WFF 150 with extension tube



Vortex fine filter WFF 150 (up to 500 m²/5382 sq. ft.)



WFF 150 with soakaway strainer

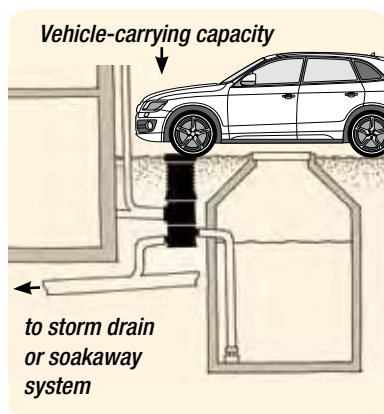
NEW



Wall-mounting
bracket



NEW
Five-year guarantee on all
vortex filter materials.



Vehicle-carrying capacity

to storm drain
or soakaway
system



Wall bracket for
concrete rainwater
storage tank



Vortex fine filter WFF 150

Item No.

consists of housing, end ring with housing cover and lifting handle (30 cm/11.8 in.) in the following versions:

● WFF 150 with extension tube	filter insert 0.28 mm (0.01 in.)	WF 10 11
● WFF 150 with extension tube	filter insert 0.44 mm (0.02 in.)	WF 10 12
● WFF 150 without extension tube	filter insert 0.28 mm (0.01 in.)	WF 10 02
● WFF 150 without extension tube	filter insert 0.44 mm (0.02 in.)	WF 10 01

► All WFF 150 filters are optionally available with a round spirit level for easy, upright installation of the vortex filter. See page 15.

Components/spare parts for WFF 150

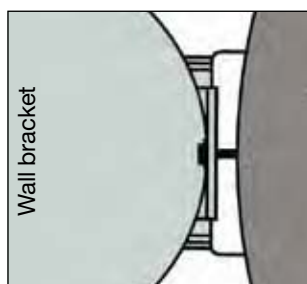
Item No.

● Housing cover	WN 10 02
● End ring	ZW 10 00
● Filter insert made of stainless steel (VA), height 21.5 cm (8.46 in.)	
Mesh size 0.28 mm (0.01 in.)	WE 03 00
Mesh size 0.44 mm (0.02 in.)	WE 03 01
● Stainless-steel lifting handle (VA)	
to lift out filter insert for maintenance	
Length 30 cm (11.8 in.) (standard)	WA 03 01
Length 63 cm (2 ft.)	WA 03 02
Length 100 cm (3.3 ft.)	WA 03 03
● Demonstration model WFF 150:	
Prepared for demonstration purposes	WS 10 01

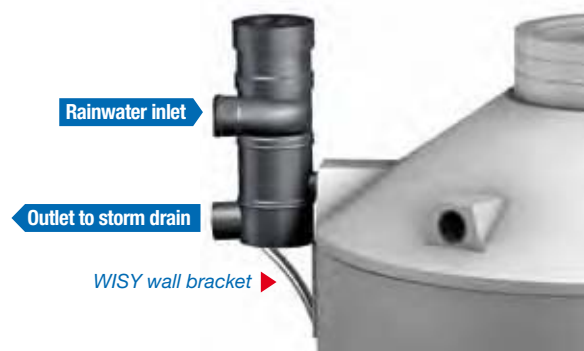
Accessories for WFF 150

Item No.

● Additional extension tube	WV 10 10
length 50 cm (1.6 ft.) made of polypropylene (PP) to raise the inspection opening to ground level. The extension tubes are fitted with a collar to fit the filter housing. Cutting lines around outer circumference make it easy to cut the tube accurately to the required mounting depth.	
● Blind insert made of stainless steel (VA)	
Ensures direct throughflow of water to the storm drain or soakaway system, during winter operation or maintenance (not illustrated)	BE 03 02
● Stainless-steel soakaway strainer (VA)	
For trapping the fine and coarse dirt from the rinsing and excess water if the water is released into an underground soakaway system rather than a storm drain.	
Mesh size 1.6 mm (0.06 in.)	VS 03 01
● Stainless-steel wall-mounting bracket (VA)	
for installing filter on a vertical wall	WH 03 03
● Stainless-steel wall bracket (VA)	
for concrete rainwater storage tank	WH 04 00



For secure attachment: The wall bracket
can fit any curvature of storage tank.



Rainwater inlet

Outlet to storm drain

WISY wall bracket ►

Vortex fine filter with spirit level

*Helps to
ensure upright
installation
of filter!*

Vortex fine filter with spirit level for quick, correct installation of the WFF 100 and WFF 150 filters.

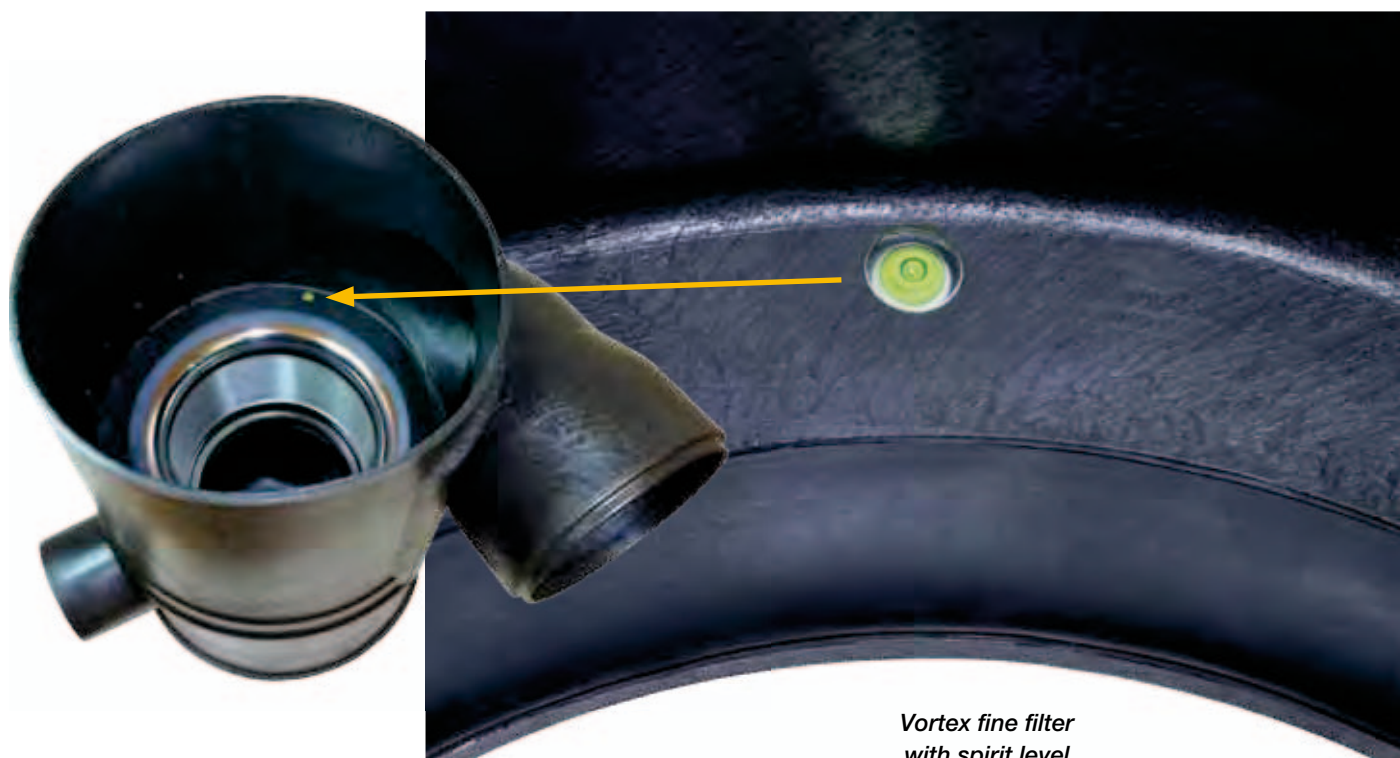
Filters can be installed perfectly upright with the help of the integrated spirit level. It has a diameter of 11 mm (0.43 in.) and an accuracy of 0.2 degrees.

WFF 100 with spirit level	Item No.
---------------------------	----------

- | | |
|--|----------|
| ● WFF 100 with extension tube with spirit level, filter insert mesh size 0.28 mm (0.01 in.) | WF 20 05 |
| ● WFF 100 with extension tube with spirit level, filter insert mesh size 0.44 mm (0.02 in.) | WF 20 06 |
| ● WFF 100 without extension tube with spirit level, filter insert mesh size 0.28 mm (0.01 in.) | WF 20 03 |
| ● WFF 100 without extension tube with spirit level, filter insert mesh size 0.44 mm (0.02 in.) | WF 20 04 |

WFF 150 with spirit level	Item No.
---------------------------	----------

- | | |
|--|----------|
| ● WFF 150 with extension tube with spirit level, filter insert mesh size 0.28 mm (0.01 in.) | WF 10 06 |
| ● WFF 150 with extension tube with spirit level, filter insert mesh size 0.44 mm (0.02 in.) | WF 10 07 |
| ● WFF 150 without extension tube with spirit level, filter insert mesh size 0.28 mm (0.01 in.) | WF 10 04 |
| ● WFF 150 without extension tube with spirit level, filter insert mesh size 0.44 mm (0.02 in.) | WF 10 05 |



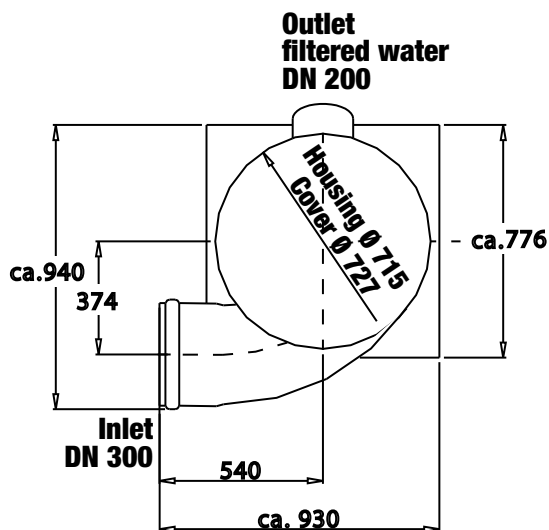
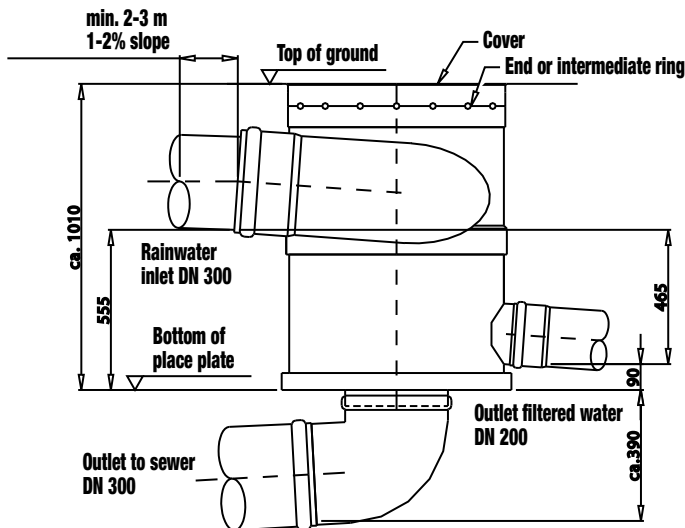
*Vortex fine filter
with spirit level*

Vortex fine filter WFF 300 (up to 3000 m²/32,291 sq. ft.)

Rainwater filter for installation underground or in the open air (e.g. for industrial applications). *Vehicle-duty capacity tested to German standard ATV: Vehicle-duty capacity up to 60 t depending on cover version.* Polypropylene housing (PP). Stainless-steel filter insert. Filter mesh size 0.38 mm (0.015 in.).

Consists of housing, end ring with certified child safety device, aluminium or steel cover, stainless-steel filter insert, low maintenance, baseplate and 50 cm lifting handle made of stainless steel.

Drainage safety according to DIN EN 12056 / EN 752, complies with DIN 1989.



60t vehicle-duty capacity
ATV-tested vehicle-duty capacity
up to 30t by vehicles as defined
by DIN 1072/SLW 30



Note: When installing the WFF 300, make sure that the rainwater is admitted to the filter through a straight tube section of at least 1.5 metres (4.92 ft.) in length. The tube should be installed along a downward gradient of around 1 cm per metre. To ensure optimum operation of the system, this tube section must not include any elbows or deflections.

Vortex fine filter WFF 300

Item No.

- WFF 300
with steel cover, vehicle-duty capacity *up to 12 t*
(vehicles as defined by DIN 1072/LKW12) WF 3011
- WFF 300
with steel cover, vehicle-duty capacity *up to 60 t*
(vehicles as defined by DIN 1072/SLW60) WF 3001
- WFF 300
with aluminium cover, *pedestrian* duty to DIN 1989-3 WF 3012
- All versions of the WFF 300 are optionally available in a short version with overall height reduced by 145 mm. Height difference between the base of the rainwater inlet pipe and the storm drain connection pipe is 800 mm in the shorter version instead of 945 mm in the standard version. See following page.

Short version of vortex fine filter WFF 300

*With reduced
invert
differential*

Short version of vortex fine filter WFF 300.

The difference in elevation between the rainwater inlet and outlet is only 800 mm, i.e. 145 mm less than the standard WFF 300 model. The short version of the WFF 300 is available with three different cover designs.

Vortex fine filter short

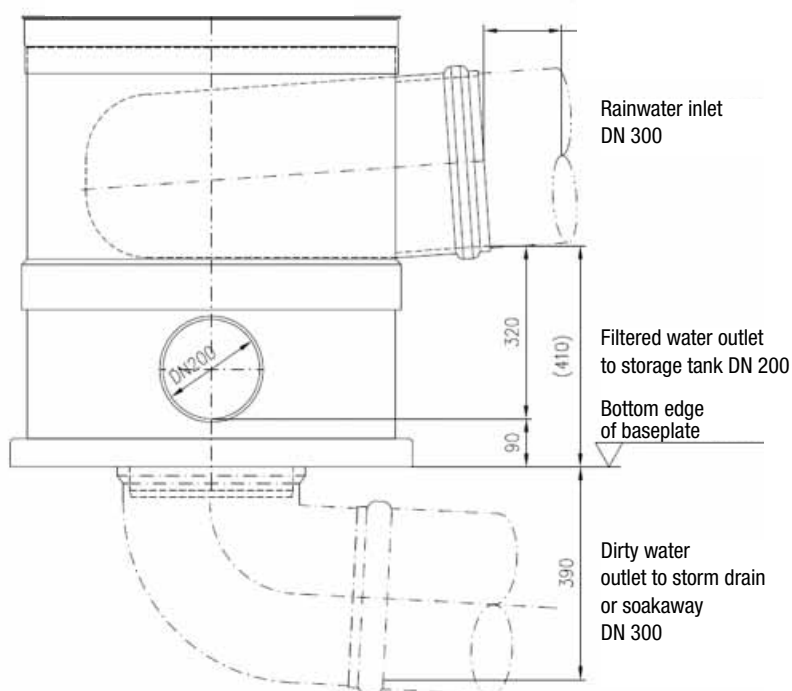
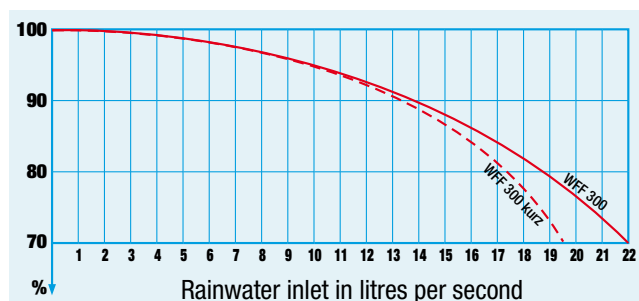
Item No.

- | | |
|---|---------|
| ● WFF 300 short with steel cover,
vehicle-duty capacity of up to 12 t (acc. to DIN 1072) | WF 3021 |
| ● WFF 300 short with steel cover,
vehicle-duty capacity of up to 60 t (acc. to DIN 1072) | WF 3023 |
| ● WFF 300 short, with aluminium cover,
pedestrian duty (to DIN 1989) | WF 3022 |



Comparison - short version on left and standard version on right

Efficiency chart for WISY vortex fine filters WFF 300

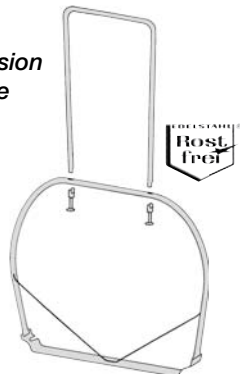


Vortex fine filter WFF 300 (up to 3000 m²/32,291 sq. ft.)

Housing cover (aluminium or steel)



Extension handle

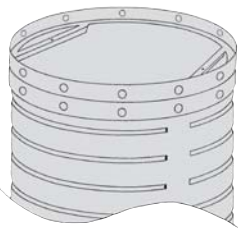


Lifting handle

child safety lock



End or intermediate ring



Cutting lines

Extension tube

Filter insert



End or intermediate ring

Rainwater inlet

Outlet to storage tank

Outlet to storm drain

Baseplate

Components/spare parts	Item No.
● Filter insert made of stainless steel, mesh size 0.38 mm (0.015 in.)	WE 03 07
● Stainless-steel lifting handle, length 50 cm (1.6 ft.), to lift out filter insert for maintenance.	WA 03 05
● Non-slip steel cover Vehicle-duty capacity up to 12 t (DIN 1072/LKW12) Vehicle-duty capacity up to 60 t (DIN 1072/SLW60)	WF 40 11 WF 40 01
● Non-slip aluminium cover, pedestrian duty according to DIN 1989-3	RS 10 31
● Demonstration model prepared for demonstration purposes	WS 30 01

Accessories	Item No.
● Stainless-steel extension handle Length 50 cm (1.6 ft.) Length 100 cm (3.3 ft.)	WA 03 07 WA 03 09
● Extension tube (PE) black, for raising inspection opening to ground level, diameter 70 cm (2.3 ft.), length optional up to max. 140 cm (4.6 ft.), price per 10 cm	WV 10 30
● Intermediate ring: Required to connect the extension tube	RS 10 20
● End ring with certified child safety device required to connect the cover to the housing	RA 10 20
● Soakaway strainer (not illustrated)	VS 03 10
● Stainless-steel blind insert to prevent water inflow to the storage tank. NEW Ensures direct throughflow of water to the storm drain or soakaway system, during winter operation or maintenance	BE 03 06
● Stainless-steel cover with engraved surface, optionally available with special coating	WF 40 15



Now available with engraved surface

Benefits of WISY filters

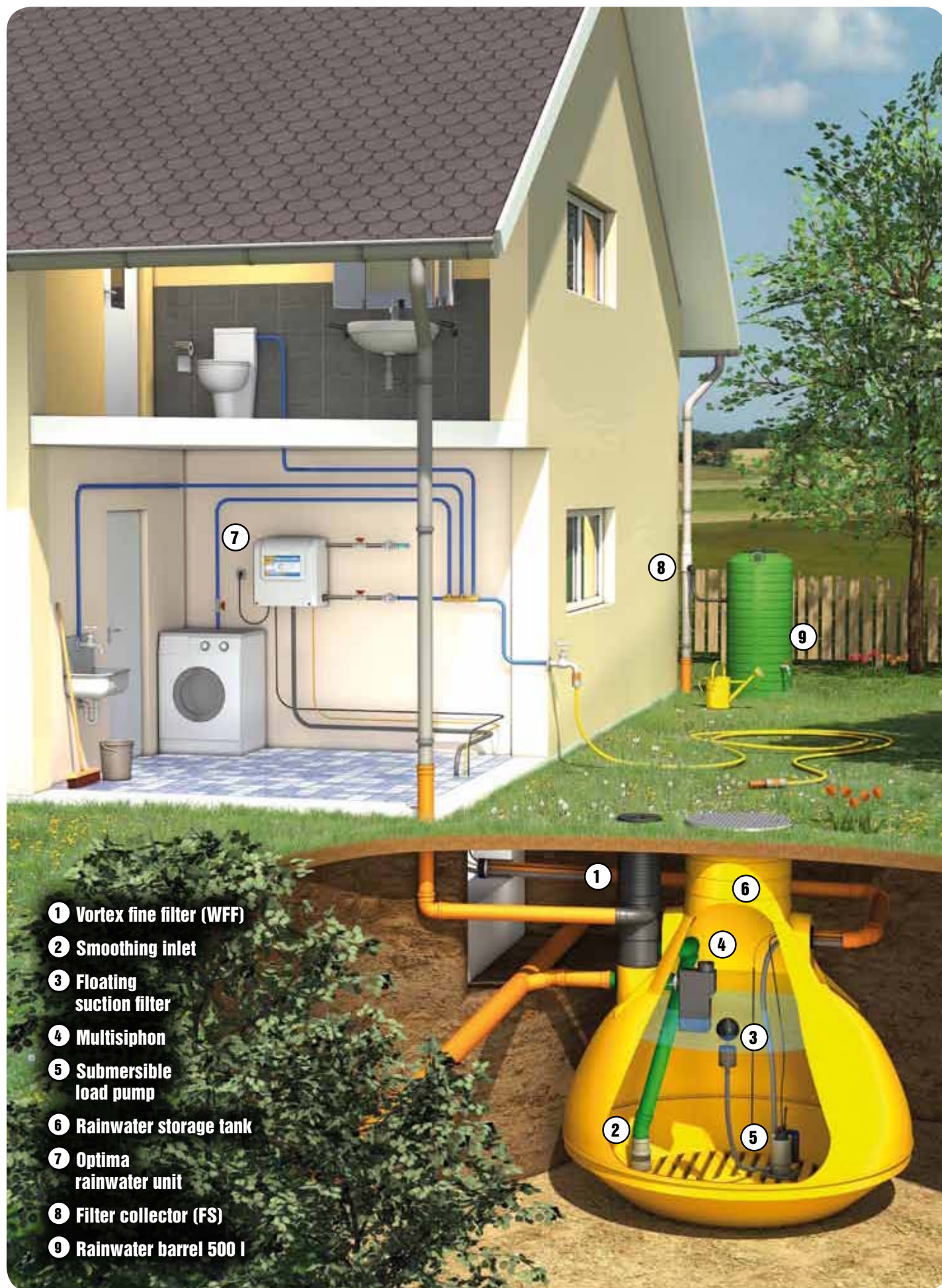
- Guarantees safe drainage
- Separates/filters out all dirt particles
- Oxygen enrichment by vortex action
- Low maintenance requirements
- Excellent water yield



Rio de Janeiro:

WISY installed 18 large rainwater filters at the Maracana football world cup stadium in Rio de Janeiro. The rainwater is used to irrigate the playing turf and supply water to sanitary facilities. Rainwater is ideal for watering playing surfaces at all kinds of sport facilities.

Optima rainwater unit as part of a complete rainwater harvesting system



WISY rainwater units for every application

MULTIMAT

The low-noise rainwater unit
The pressure pump is located in the storage tank so that the system makes no noise inside the house.



**Now new for all
WISY Rainwater Units:
Standby Consumption is
50 times less - 0,2 Watt only!**

SIGMA

The low-cost solution
ideal for the single-family home.
Easy to install with integrated
„Aspri“ suction pump.
– low-noise –



OPTIMA

The convenient solution for
single-family/two-family homes.
Two-pump system for larger
distances with a submersible
pressure pump in the storage
tank and a „Prisma“ feed
pump in the house.
– low-noise –



MAXIMA

For connecting multiple
extraction points, e.g. for
use in multi-family homes,
schools, shopping centres,
office buildings.
– low-noise –



DELTA

For large appliances
in commercial buildings,
schools, hotels and industrial
premises.
The modular
dual-pump
booster system.



**New: 0,2 Watt
standby only!**



Control unit and
mains water top-up indoors



Pressure pump
with floating
suction filter
in the storage
tank

The Multimaterainwater unit uses a submersible pressure pump to pump rainwater out of the storage tank and feed it under pressure into the rainwater supply circuit. It controls the rainwater system, monitors the fill level of the storage tank and automatically tops up the rainwater storage tank with mains water when required.

Supplied ready to connect, complies with DIN EN 1717and DIN 1989.

Benefits:

- Extremely compact
- Noiseless inside the house
- Reliable in operation thanks to pressure pump system
- Submersible pressure pump pumps rainwater out of the storage tank and feeds it under pressure into the rainwater supply circuit.
- Controls the rainwater system, monitors the fill level of the storage tank and automatically tops up the rainwater storage tank with mains water when required.

Multimat rainwater unit	Item No.
● Multimater with submersible pressure pump Multigo 205, max. delivery rate 80 l/min., max. delivery head 48 m	RW 9008
● Multimater with submersible pressure pump Multigo 407, max. delivery rate 125 l/min., max. delivery head 49.4 m	RW 9012

The scope of supply consists of:

Wall unit in the house with:

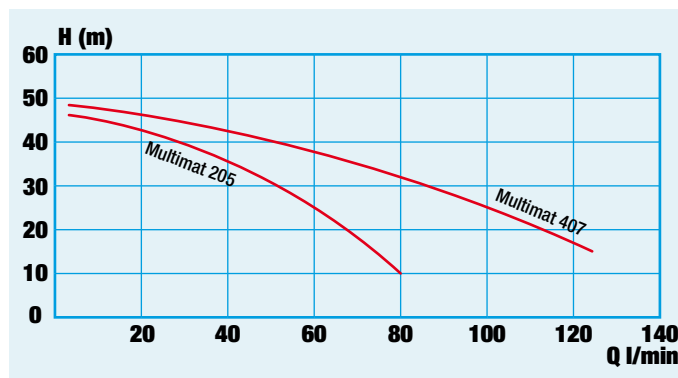
- Pump controller SA 06, cut-in pressure 1.5 bar with pressure gauge and operating state indicator
- Open mains water outlet with solenoid valve, 1/2" for Multimater 205 and 3/4" for Multimater 407, connecting hose made of special-purpose rubber with stainless-steel braiding, ball valve with dirt trap
- Wall bracket made of stainless-steel with fixings
- Labelling set

Storage tank equipment with floating fine suction filter:

- Multi-stage submersible pressure pump Multigo with stainless-steel baseplate (22 cm x 22 cm/8 in. x 8 in.), 20 m connecting cable and 3 m lifting strap. With 1" nozzle and backflow prevention valve at discharge end
- Float switch, with switch lever and clamp with 20 m cable
- Adapter plug
- Floating suction filter made of stainless steel, mesh size 0.3 mm (0.01 in.), with 0.75 m (2.5 ft.) highly flexible suction tube

Multimat

Operating characteristic at 2850 rpm



*Noiseless
inside the
house*



The Multimaterainwater unit combined with a concrete storage tank with WISY vortex fine filter

The Multimaterainwater unit operates with two separate cables between the storage tank and the wall unit. This arrangement makes the system easy to install and ensures lasting operational reliability. Two sockets must be provided by the client.

Recommended accessories	Item No.
● Hose connection set for Multimater, (for rainwater distribution system) 1x ¾" pressure hose assembly with elbow and ¾" ball valve	RW 70 01
● Two surface-mounted water meters 2 x 1" outside thread, for Multimater, two connections for water meters 1" union nut and ¾" outside thread, 1" union nut and ½" inside thread	RW 70 10
● Flexible tube DN 50, 25 m roll	WD 20 00
● Adapter flexible tube to tundish	WD 20 21

SIGMA rainwater unit



Sigma with cover



Dimensions of the Sigma wall unit (in mm):

W 500 x H 510 x D 315



Sigma without cover

The example chart on the right demonstrates that the Sigma 3 pump delivers 30 litres per minute with a delivery head of around 25 metres

Fully automatic rainwater unit for supplying a single-family home with rainwater.

The unit draws rainwater from a storage tank and feeds it under pressure into the rainwater supply circuit. The unit controls the entire rainwater supply system, checks the fill level of the storage tank and automatically switches over to mains water operation when required. Supplied ready to connect. Complies with DIN 1989 and DIN EN 1717

Benefits:

- Operates fully automatically to supply household appliances with rainwater on demand
- Automatic mains water top-up with integral 9-litre top-up tank
- System can be manually switched over from rainwater operation to mains water operation at any time
- Optimum price/performance ratio

Sigma rainwater unit

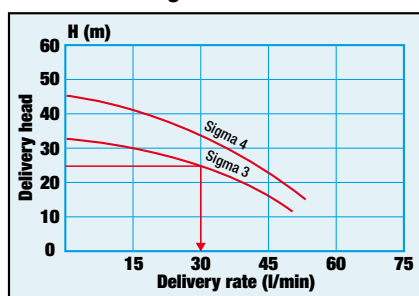
Item No.

● Sigma 3, delivery head max. 34 m, delivery rate max. 66l/min without level indicator	RZ 1003
with level indicator	RZ 1013
● Sigma 4, delivery head max. 44 m, delivery rate max. 66l/min. without level indicator	RZ 1004
with level indicator	RZ 1014

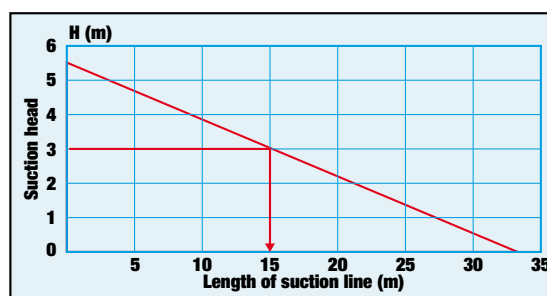
The scope of supply consists of:

- Self-priming Aspri Plus pump and pump controller, available in two different versions (3 or 4 bar), with optional level indicator
- Pressure gauge (pressure indicator)
- DIN-compliant mains water top-up function, integral 9-litre top-up tank
- Cover
- Float switch for controlling top-up with mains water

Performance charts for Sigma rainwater unit applications for the discharge end



for the suction end



The example chart above demonstrates that the maximum suction line length is 15 metres with a suction head of three metres

New: 0,2 Watt standby only!

*The
inexpensive
solution!*



Complete installation with one Sigma rainwater unit

Recommended accessories

Item No.

- | | |
|---|----------|
| ● Floating coarse suction filter SAGF 1", with float, with non-return valve with 2 m suction hose assembly, connection to PE pipe | SZ 98 11 |
| ● Floating fine suction filter SAFF 1", with float, with non-return valve with 2 m suction tube and connection to PE pipe | SZ 98 01 |
| ● Spiral suction and pressure hose 1", price per metre | AS 20 03 |
| ● Hose connection set consisting of two ¾" and 1" pressure hose assemblies, each 0.5 in length, ¾" ball valve with dirt trap, 1" ball valve and one 1" nozzle | RW 78 00 |
| ● Two surface-mounted water meters 2 x 1" outside thread, for hose connection set above and two connections for water meters 1" union nut and ¾" outside thread | RW 78 10 |
| ● Measuring lead extension for level indicator, 10 m | FA 99 15 |
| ● Hose clamp 1" | SS 03 03 |
| ● Labelling set | ZS 50 00 |
| ● Ball valve 1" | ZK 04 13 |

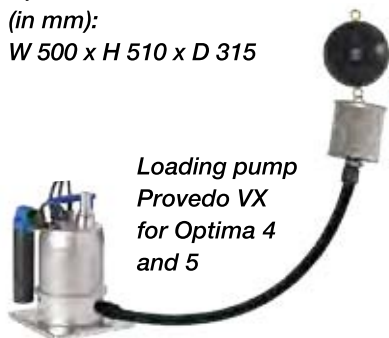
OPTIMA rainwater unit

Optima - the convenient solution for single-family/ two-family homes



Optima
with cover

Dimensions of the
Optima wall unit
(in mm):
W 500 x H 510 x D 315



Loading pump
Provedo VX
for Optima 4
and 5



Optima
without cover

The rainwater unit combines all components essential for operation in a single device. Pumps the rainwater out of the storage tank and feeds it under pressure into the rainwater supply circuit. Controls the entire rainwater system, monitors the fill level of the storage tank and automatically tops up with mains water in the wall unit when required.

Supplied ready to connect, complies with DIN EN 1717 and DIN 1989.

Benefits:

- Highly reliable rainwater supply by submersible loading pump
- Manual switchover from rainwater operation to mains water operation at any time
- Space-saving compact design

Optima with loading pump and floating filter SAFF

Item No.

● Optima 4, with 4 bar system pressure, max. delivery rate 70 l/min. without level indicator	RW 9924
with level indicator	RW 9914
● Optima 5, with 5 bar system pressure, max. delivery rate 70 l/min. without level indicator	RW 9925
with level indicator	RW 9915

The scope of supply consists of:

Wall unit in the house with:

- Normal-priming, multi-stage centrifugal pump
- Pump controller SA 06, cut-in pressure 1.5 bar with pressure gauge
- Level indicator (optional), with 13 m measuring lead
- Automatic mains water top-up by 9 l top-up tank
- Cover, wall-mounting bracket

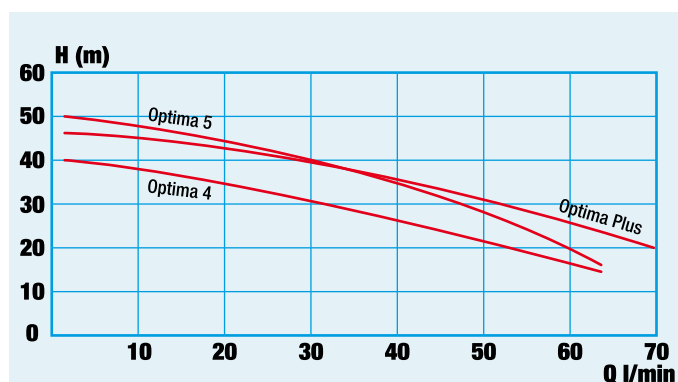
Storage tank equipment with:

- Provedo VX submersible pressure pump with fixed vertical float switch, 20 m connecting cable, 1" nozzle at discharge end with non-return valve, 3 m lifting strap and hook with screw thread
- Stainless-steel baseplate 22 cm x 22 cm (8 in. x 8 in.) for submersible pressure pump
- Stainless-steel floating fine suction filter, mesh size 0.3 mm (0.01 in.), with 0.75 m (2.46 ft.) flexible suction tube
- Labelling set

**New: 0,2 Watt
standby only!**

Optima

Operating characteristic at 2850 rpm



*OptimaPlus -
ideal for long
distance or large
height differential
between the storage
tank and wall unit*



*Included in the
scope of supply:
Hose nozzle
with integrated
non-return
valve*

*Dimensions of the
OptimaPlus wall unit
(in mm):
W 500 x H 510 x D 315*

**New: 0,2 Watt
standby only!**

The rainwater unit combines all components essential for operation in a single device. Pumps the rainwater out of the storage tank over long distances and large height differentials and feeds it under pressure into the rainwater supply circuit.

Controls the entire rainwater system, monitors the fill level of the storage tank and automatically tops up with mains water in the wall unit when required.

Supplied ready to connect, complies with DIN EN 1717 and DIN 1989.

Benefits:

- Highly reliable rainwater supply by submersible loading pump
- Manual switchover from rainwater operation to mains water operation at any time
- Suitable for long distances and large height differentials

OptimaPlus

Item No.

- OptimaPlus, max. delivery rate 70l/min.,
max. delivery head 47 m, max.
feed pressure 4.7 bar

RW 98 00

The scope of supply consists of:

Wall unit in the house with:

- Normal-priming, multi-stage centrifugal pump, max. feed pressure 4.7 bar
- Pump controller SA 06, cut-in pressure 1.5 bar with pressure gauge and operating state indicator
- Automatic mains water top-up
- Operating state indicator for mains
- Cover, wall-mounting bracket

Storage tank equipment with:

- Multigo 205 multi-stage submersible pressure pump, max. feed pressure 4.7 bar with 3.5 m connecting cable (4-core), 1" nozzle with non-return valve at discharge end, 3 m lifting strap
- Stainless-steel baseplate 22 cm x 22 cm (8 in. x 8 in.) for Multigo
- Stainless-steel float switch with switch lever and clamp
- Stainless-steel fine suction filter, mesh size 0.3 mm (0.01 in.) with 0.75 m (2.46 ft.) highly flexible suction tube
- 22 m (72.9 ft.) cable extension (4-core) with connector and coupling IP 68
- Labelling set

Recommended accessories for all Optima units

Item No.

- Hose connection set for Optima (for mains water top-up and rainwater distribution system) consisting of two ¾" and 1" pressure hose assemblies, each 0.5 m in length, ¾" ball valve with dirt trap, 1" ball valve and one 1" nozzle

RW 78 00

- Two surface-mounted water meters 2 x 1" outside thread, for hose connection set above and two connections for water meters 1" union nut and ¾" outside thread

RW 78 10

- Measuring lead extension for level indicator, 10 m

FA 99 15

- System cable coupling set, IP 67

KV 30 20

- Cable coupling set (5-pin), IP 68 for OptimaPlus

KV 30 00

- Flexible electric cable 3 x 1.5 mm², specifically for cable coupling sets,
can be cut to length on request, price per m

KV 30 05

- Hose clamp

SS 03 03

- Pressure hose

DS 20 03

- Flexible electric cable 4 x 1.5 mm², per m

RW 98 23

- Connector (7-pin), IP 67

RW 98 21

- Coupling (7-pin), IP 67

RW 98 22

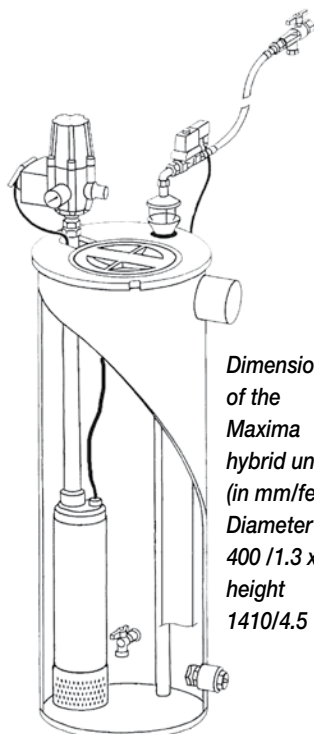
Maxima rainwater unit

New: 0,2 Watt standby only!



Hybrid unit indoors

Submersible loading pump in storage tank



Dimensions of the Maxima hybrid unit (in mm/feet):
Diameter 400 / 1.3 x height 1410 / 4.5

Non-return valve



Large hybrid unit ensures high supply capacity

Combines all components required to operate the rainwater supply system according to the two-pressure-pump principle.

Rainwater is pumped by the submersible loading pump out of the storage tank to the buffer tank of the indoor hybrid unit. A submersible loading pump inside the buffer tank supplies rainwater to appliances. The buffer tank of the unit is directly topped up with mains water, buffer storage volume 100 l for high consumption peaks. Complies with DIN 1989 and DIN EN 1717

Benefits:

- System supplied ready to connect, no electrical work required
- Quiet in operation thanks to submersible pumps
- Manual switchover between rainwater operation and mains water operation possible at any time
- High supply and operational reliability even during periods of peak consumption

Maxima	No. of consumers (guide value)	Maximum delivery rate	Maximum delivery head
205	2 to 4 households	75 l/min.	47.7 m (157 ft.)
407	4 to 8 households Commerce + industry	125 l/min.	49.4 m (162 ft.)

Maxima rainwater unit

Item No.

● Maxima 205 controller attached to unit	ZE 99 01
● Maxima 407 controller attached to unit	ZE 99 03
● Maxima 205 controller for wall mounting	ZE 98 01
● Maxima 407 controller for wall mounting	ZE 98 03

The scope of supply consists of:

Indoor hybrid unit with:

- Capacity 100 l (26.39 gallons) with emergency overflow DN 100 (3.9 in.)
- Multigo 205 or 407 multi-stage submersible loading pump with rubber feet
- Pump controller SA 06/V with pressure gauge
- Electronic control unit with sensor rod
- Automatic mains water top-up
- Open mains water outlet (½" for Maxima 205, ¾" for Maxima 407), with solenoid valve, ball valve and dirt trap
- Drain valve ½"
- Non-return valve in rainwater inlet

Storage tank equipment with:

- Provedo VX submersible loading pump with fixed vertical float switch, 20 m connecting cable, 1¼" nozzle at discharge end with non-return valve (ST 1011), 3 m lifting strap and hook with screw thread
- Stainless-steel baseplate 22 cm x 22 cm (8 in. x 8 in.) for submersible loading pump
- Stainless-steel floating fine suction filter, mesh size 0.3 mm (0.01 in.), with 0.75 m (2.5 ft.) flexible suction tube
- Labelling set

Recommended accessories

Item No.

● Hose connection set for Maxima, comprising connection hose 0.50 m (1.6 ft.), 1" union nut, ¾" brass ball valve with inside thread	VS 99 53
● Two surface-mounted water meters 2 x 1" outside thread, for hose connection set above and two connections for water meters 1" union nut and ¾" outside thread, 1" union nut and ½" inside thread	RW 70 10
● Non-return valve for the event that the water level in the storage tank can rise above the centre line of the indoor buffer storage tank. The non-return valve closes the inlet to the buffer storage tank. The inlet is opened again only if the storage tank pump is switched on. This system prevents the unintentional inflow of rainwater from the storage tank into the buffer storage tank through the full inlet hose, comprises: Solenoid valve 1 ¼" cable, 1.5 m (4.92 ft.) long and adapter plug	SV 15 01

Tailor-made large systems

For commercial buildings, schools, hotels and industrial premises

The Delta rainwater unit is WISY's dual-pump booster system which is designed to meet the requirements of large-scale consumers. It is primarily intended for installation in public buildings and in large or high buildings. The system is capable of supplying a large number of appliances when requirements are extremely diverse. It is designed according to the modular principle. In order to select the correct modules, it is necessary to know how much water will be required and at what pressure. In larger buildings, these values are generally calculated by a specialist planner. Once this information is known, a suitable WISY dual-pump booster system can be assembled from the following modules.

Module 1



The buffer tank

The WISY dual-pump booster system has a buffer tank with electronic control system. This basic module is identical in all modular dual-pump booster systems. See page 28.

Module 2



The mains water top-up

From the four different sizes of top-up, select the one which will be large enough to supply the required volumetric flow of mains top-up water. See page 28.

Module 3



The dual-pump booster set

This is the core of the system and you can choose from 5 different types and models. Booster sets with varying degrees of operating convenience and different ratings are available. See page 29.

Module 4



The submersible loading pump

This pump is installed in the storage tank and pumps fresh water into the buffer tank. Select a suitable loading pump according to the distance between the storage and buffer tanks and the required water flow rate. See page 29.

1
2
3
4

Delta rainwater unit, module 1



500 litre
buffer tank

The buffer tank is installed in the utility room or basement. Its purpose is to cover peak demand. It compensates for periods when the booster pumps are pumping at a higher rate than the loading pump. With a buffer volume of 500 litres, it is capable of meeting the water usage requirements of large buildings.

The buffer tank is also used to draw water from the mains supply when the rainwater storage tank is empty. A fully automatic, electronic control system detects the fill levels in the buffer and storage tanks. The electronic control system then starts up either the pump in the storage tank or the mains water top-up and shuts the system down again automatically when a predefined fill level is reached.

Delta rainwater unit module 1

Item No.

- Buffer tank complete

DT 10 01

The scope of supply consists of:

- 500 litre tank with plastic screw-on cover
- Automatic electronic control system with sensor rod
- Overflow DN 100 with internal multisiphon
- Connection for inlet tube of correct diameter, with integrated non-return valve

Delta rainwater unit, module 2



Open mains
water outlet

The correct size of mains water top-up can be selected from the table below based on water usage requirements. The unit is supplied ready-assembled on the buffer tank. The electronic control system of the buffer tank starts up and shuts down the mains water top-up when required. It comprises a stainless-steel tundish with nozzle for splash-free inflow, solenoid valve with connecting cable and electric plug, connecting tube with stainless-steel braiding and brass ball valve with stainless-steel dirt trap (mesh size 0.65 mm (0.03 in)).

Connection	Top-up water flow rate with 3 bar system pressure	Connecting hose	Tundish
¾"	6.48 m³/h	50 cm	DN 50
1"	8.64 m³/h	75 cm	DN 70
1½"	20.52 m³/h	75 cm	DN 100
2"	34.92 m³/h	100 cm	DN 100

Open mains water outlet

Item No.

- ¾" TW 99 09
- 1" TW 99 03
- 1½" TW 99 05
- 2" TW 99 07



Dual-pump booster system
with Hydrovar control

The dual-pump booster must be selected according to pressure and flow rate requirements and the desired ease of operation.

Dual-pump booster systems	Item No.
<ul style="list-style-type: none"> ● DPA Aspri 15-5 2 self-priming centrifugal pumps, analogue control system for alternate startup and activation of both pumps to cover peak-load demand, isolated output, 1 1/2" connection (inside thread) suction and discharge ends, expansion vessel Q max = approx. 110 l/min H max = 54 m 	DT 1505
<ul style="list-style-type: none"> ● DPA Aspri 25-5 2 self-priming centrifugal pumps, analogue control system for alternate startup and activation of both pumps to cover peak-load demand, isolated output, 1 1/2" connection (inside thread) suction and discharge ends, expansion vessel Q max = approx. 183 l/min H max = 57 m 	DT 2505
<ul style="list-style-type: none"> ● GXS 20 / 2 HM 7 2 horizontal non-self-priming centrifugal pumps, control with automatic alternate startup and activation of both pumps to cover peak-load demand Connection: suction end 2", discharge end 1 1/2" optional: expansion vessel Q max = 140 l/min Q = 40 – 140 l/min H = 52.5 – 25 m H max = 59 m 	DT 2002
<ul style="list-style-type: none"> ● GTKS 20 / 2 HM 7 ZT with Teknospeed 2 horizontal non-self-priming centrifugal pumps with Teknospeed electronic speed control system, automatic alternate startup and activation of both pumps to cover peak-load demand, isolated output, connection: suction end 2", discharge end 1 1/2" optional: expansion vessel Q max = 140 l/min Q = 40 – 140 l/min H = 52.5 – 25 m H max = 59 m 	DT 2022
<ul style="list-style-type: none"> ● GT 20 HV LC 5SV08 F011T with Hydrovar 2 non-self-priming, vertical 8-stage centrifugal pumps 5SV08F011T made of stainless steel with three-phase motor (3x400 V), with Hydrovar electronic speed control system, automatic alternate startup, isolated output, expansion vessel (24 l), connections at suction end / discharge end: 1 1/4" Q max = 284 l/min Q = 40 – 142 l/min (single pump) H = 57.6 – 25.8 m 	DT 2005

Delta rainwater unit, module 4



Multigo with
float switch

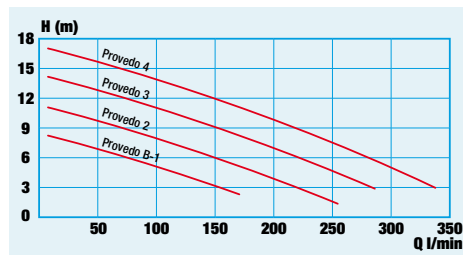


Provedo loading
pump 2/3/4

The submersible pump is module 4 of the Delta rainwater unit. The required size of submersible pump in the storage tank is determined according to the height differential and the distance between the storage tank and the buffer tank.

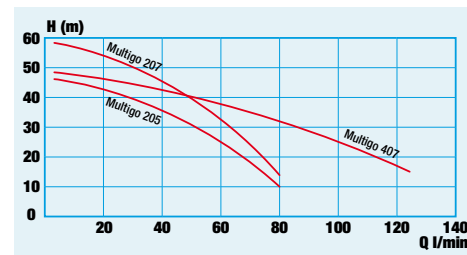
Provedo

Operating characteristic at 2850 rpm



Multigo

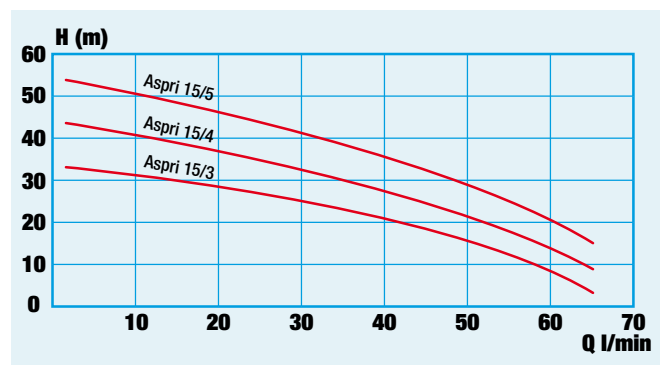
Operating characteristic at 2850 rpm



Submersible pump	Connection suction end	Item No.
● Provedo B1	1" nozzle	UP 13 22
● Provedo - 2	2" outside thread	UP 01 26
● Provedo - 3	2" outside thread	UP 01 27
● Provedo - 4	2" outside thread	UP 01 28
● Multigo 205	1 1/4" inside thread	UP 11 02
● Multigo 407	1 1/4" inside thread	UP 11 03
● Multigo 409	1 1/4" inside thread	UP 11 09

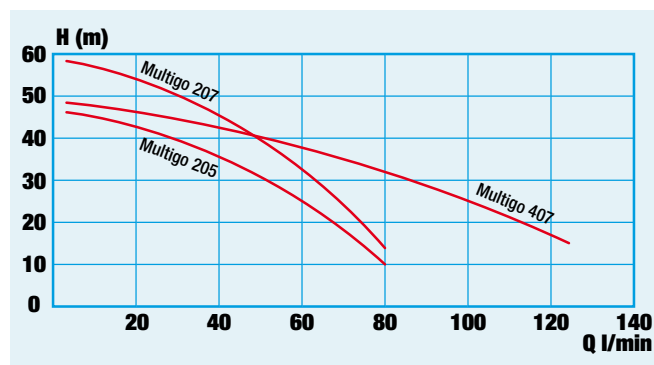
Aspri Plus

Operating characteristic at 2900 rpm



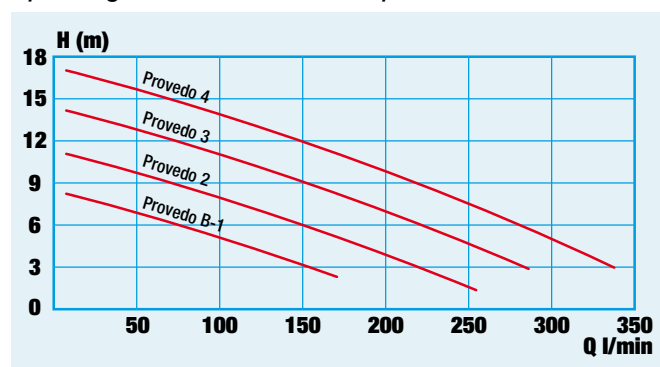
Multigo

Operating characteristic at 2850 rpm



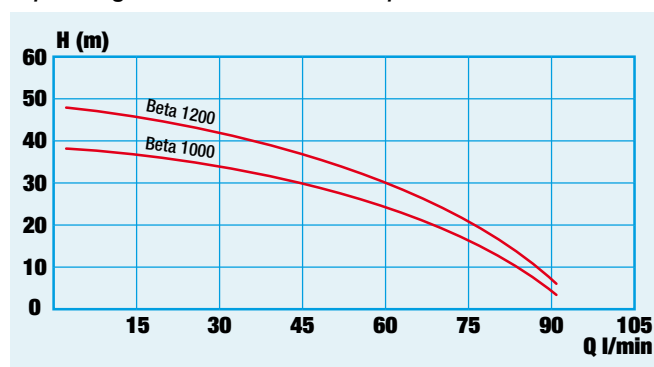
Provedo

Operating characteristic at 2850 rpm



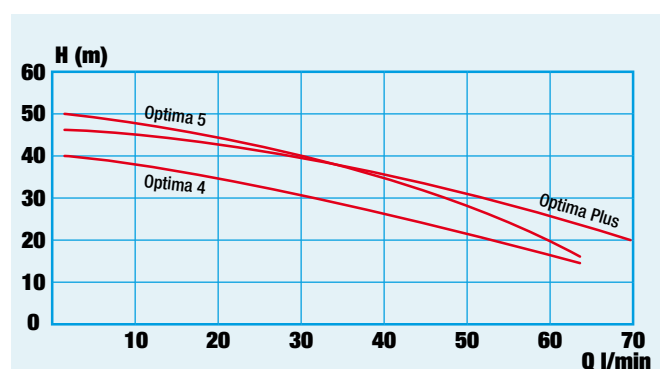
Beta

Operating characteristic at 2800 rpm



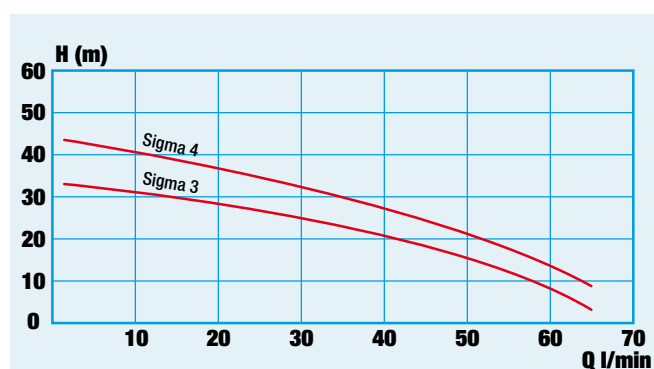
Optima

Operating characteristic at 2850 rpm



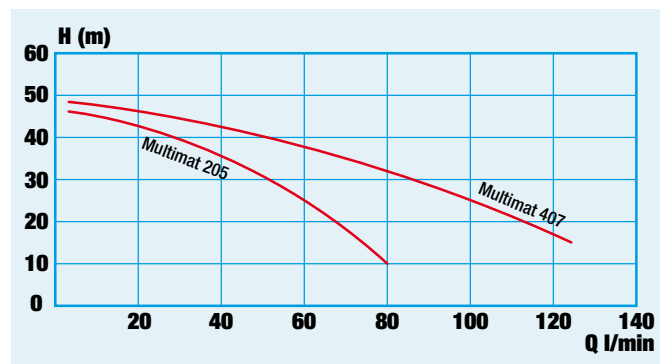
Sigma

Operating characteristic at 2900 rpm



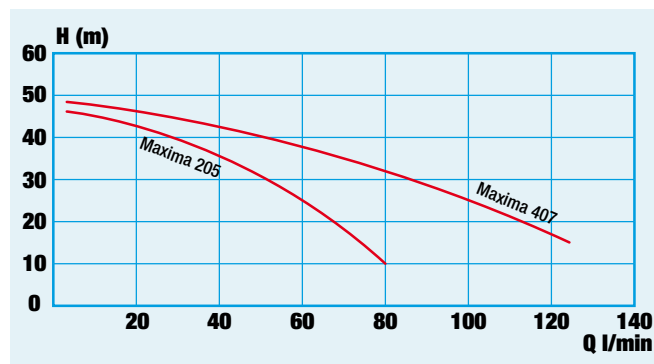
Multimat

Operating characteristic at 2850 rpm



Maxima

Operating characteristic at 2850 rpm

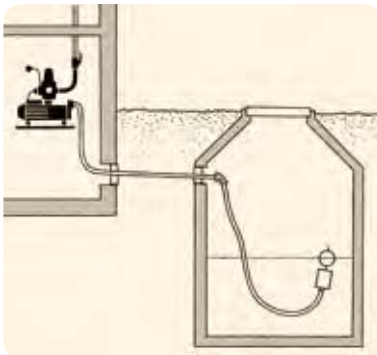


Self-priming pump (AspriPlus)

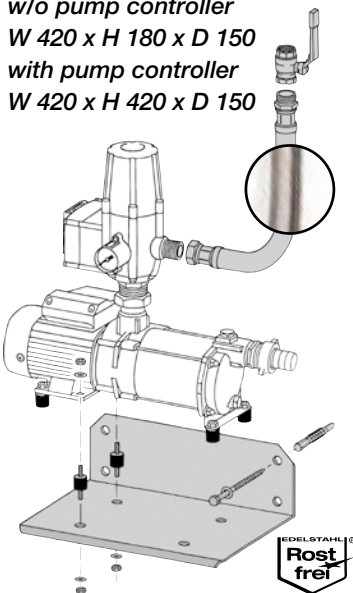


AspriPlus with pump controller

+ PLUS +++
dirt trap, screw connection
and rubber feet



Dimensions with pump (in mm):
w/o pump controller
W 420 x H 180 x D 150
with pump controller
W 420 x H 420 x D 150



Self-priming, multi-stage centrifugal pump for pumping rainwater out of storage tanks. Models: AspriPlus 15/3 (3-stage), AspriPlus 15/4 (4-stage), AspriPlus 15/5 (5-stage).

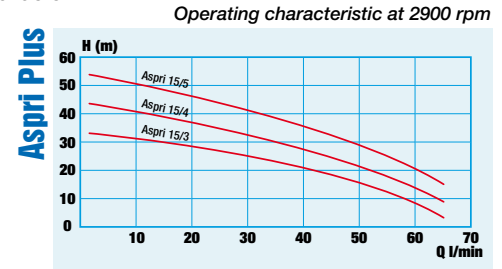
WISY-Plus package:

Assembled brass nipple, hose connection fitting at suction end, 1" nozzle and integrated stainless-steel dirt trap. Fitted with rubber feet to suppress vibration and noise, 1 1/4" screw connection to allow easy attachment and removal of pump controller.

Pump controller SA 06, cut-in pressure 1.5 bar with pressure gauge and electric socket, 1 1/4" outside thread for screw connection to pump, 1" outside thread at discharge end, operating state indicator (LEDs).

All Aspri Plus pumps have a maximum delivery rate of 66 litres per minute. The maximum delivery head is model-dependent as indicated below:

AspriPlus	Maximum delivery head
15/3	34.0 m
15/4	45.0 m
15/5	53.0 m



Self-priming pump

Item No.

- AspriPlus without pump controller
 - 15/3 SP 1203
 - 15/4 SP 1204
 - 15/5 SP 1205
- AspriPlus with pump controller SA 06
 - 15/3 SP 1293
 - 15/4 SP 1294
 - 15/5 SP 1295
- AspriPlus with pump controller SA 06V, with cut-in pressure adjustable between 1.5 and 2.8 bar
 - 15/3 SP 2293
 - 15/4 SP 2294
 - 15/5 SP 2295

Components/spare parts

Item No.

- Pump controller for AspriPlus with sealed screw connections
 - SA 06/A SA 0650
 - SA 06/V/A cut-in pressure adjustable between 1.5 and 2.8 bar SA 0660
- Dirt trap without standpipe screw connection SP 0101
- Dirt trap with suitable 3/3 standpipe screw connection SP 9901

Recommended accessories

Item No.

- Stainless-steel wall-mounting bracket with fixings and rubber pads with doubled-ended bolt for attaching AspriPlus pumps.
- 3/4" connecting hose with ball valve. For making connection between pump and distribution pipework. For vibration and noise suppression. Consisting of rubber with stainless-steel braiding with ready-pressed fittings. 1" union nut, 3/4" brass ball valve with insidethread.



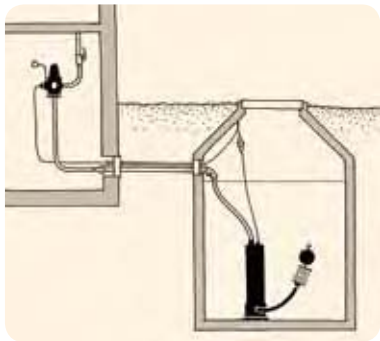
WH 0300

VS 9953

Submersible pressure pump (Multigo)



Multigo with suction-end hose nozzle and baseplate



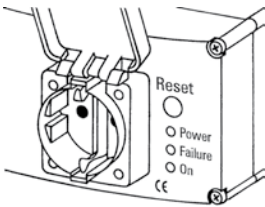
Normal-priming, multi-stage submersible pressure pump with connections for fixed or floating fine suction filters for pumping rainwater out of storage tanks. Basic model with directly-integrated hose 1" hose nozzle or with 1¼" suction inlet (inside thread) at suction end. Discharge end 1¼" inside thread.

Fully equipped with:

3 m lifting strap, 20 m connecting cable, pump controller SA 06, cut-in pressure 1.5 bar, with pressure gauge and electric socket, 2x1" outside thread, operating state indicator (LEDs). Stainless-steel wall-mounting bracket WH 0305 with fixings and lock nut. Stable baseplate 22 cm x 22 cm (8 in. x 8 in.).



New: 0,2 Watt standby only!



Multigo	Maximum delivery rate	Maximum delivery head
205	80 l/min.	48 m (157 ft.)
407	125 l/min.	49.4 m (162 ft.)
207	80 l/min.	61m (200 ft.)

► Available on request: Pump controller SA 06/V available with cut-in pressure adjustable between 1.5 and 2.8 bar.



Submersible pressure pump	Item No.
Fully equipped Multigo with pump controller SA 06, wall-mounting bracket, lifting strap, baseplate.	
<i>Model with 1" hose nozzle at suction end</i>	
● Multigo 205	UP 1302
● Multigo 407	UP 1303
● Multigo 207	UP 1305
<i>Model with 1¼" connector (inside thread) at suction end</i>	
● Multigo 205	UP 1102
● Multigo 407	UP 1103
● Multigo 207	UP 1105

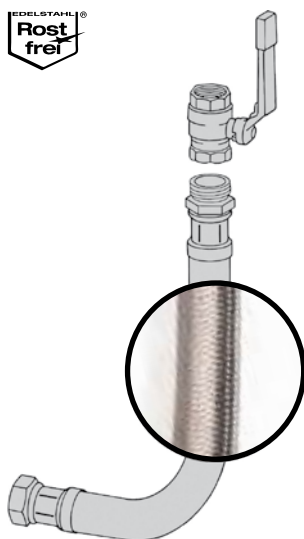
► Dimensions for models with suction-end nozzle (in mm/inches):
Multigo 205 dia. 127 / 5 x H 496 / 19.53 Multigo 407 dia. 127 x H 511 / 20.12
Multigo 207 dia. 127 x H 536 / 21.10

Components/spare parts	Item No.
Multigo basic equipment with lifting strap, baseplate.	
<i>Model with 1" hose nozzle at suction end</i>	
● Multigo 205	UP 1398
● Multigo 407	UP 1397
● Multigo 207	UP 1395
<i>Model with 1 1/4" connector (inside thread) at suction end</i>	
● Multigo 205	UP 1198
● Multigo 407	UP 1197
● Multigo 207	UP 1195
<i>Direct suction model</i>	
● Multigo 205	UP 1202
● Multigo 407	UP 1203
● Multigo 207	UP 1205
Pump controller	
● SA 06	SA 0600
● SA 06/V cut-in pressure adjustable between 1.5 bar and 2.8 bar	SA 0610
● SA 06 with wall-mounting bracket	SZ 9906
● SA 06/V with wall-mounting bracket	SZ 9907

Multigo with direct suction,
mounted on support bracket



Support bracket AK 0301



Connecting hose VS 9953

Recommended accessories	Item No.
● Stainless-steel support bracket for horizontal installation of submersible pumps in storage tanks, e.g. ribbed plastic cisterns.	AK 0301
● 3/4" connecting hose with ball valve. For making connection between pump and distribution pipework. For vibration and noise suppression. Rubber hose with stainless-steel braiding and ready-pressed fittings, 0.5 m (1.6 ft.), 1" union nut, 3/4" brass ball valve with inside thread.	VS 9953
● Hose nozzle with 1" non-return valve made of stainless steel	ST 1010
● Hose nozzle with 1 1/4" outside thread and 1" nozzle, brass	ZV 0433
● Float switch with cable clamp with 20 m (65.62 ft.) cable as dry run protection	SS 1013
● Adapter plug for connection of float switch	SS 0149

► It is recommended that the Multigo pump is operated with a hose nozzle at the discharge end.

Submersible feed pump



Provedo VX with nozzle and baseplate



Provedo B-1 with direct suction



Submersible pump with fixed level switch or float switch. For pumping clean water, e.g. out of rainwater storage tanks. With connections for fixed or floating suction filters.



Models with either 1" nozzle, 1 1/4" inside thread or direct suction.

High suction flow with low head. All parts in contact with water are made of stainless steel. Automatic startup and shutdown by float switch. 20 m (65.62 ft.) connecting cable and large, extremely stable stainless-steel baseplate.

	Maximum delivery rate	Maximum delivery head
Provedo B-1	225 l/min.	10.8 m (35.43 ft.)
Provedo VX	225 l/min.	11.7 m (38.39 ft.)

Submersible feed pump

Item No.

- Provedo B-1
Model with 1" hose nozzle at suction end and assembled baseplate 22 cm x 22 cm (8 in. x 8 in.)  UP 1322
- Provedo B-1
Model with 1 1/4" connector (inside thread) at suction end and assembled baseplate 22 cm x 22 cm (8 in. x 8 in.)  UP 1122
- Provedo VX
with fixed mounted level switch, 20 m (65.62 ft.) connecting cable 1" nozzle at suctionend, 1" nozzle with integrated non-return valve at pressure end.
Ready assembled baseplate 22 cm x 22 cm (8 in. x 8 in.).
This model is compatible with Optima and Maxima rainwater units UP 1322 VX
- Provedo B-1
with direct suction and with float and with loose float switch UP 1113
- Provedo B-1
with direct suction, without float switch UP 1111

Recommended accessories

Item No.

- Stainless-steel switch lever for precise control of the float switch, universal fit. Defines switching points precisely.
- With clamp 110 – 130 mm (4 – 5 in.) SH 0302
 - With clamp 140 – 160 mm (5.5 – 6.3 in.) SH 0300
 - With clamp 170 – 190 mm (6.7 – 7.5 in.) (e.g. for Provedo 2-4) SH 0301

Submersible feed pump for large installations



Provedo for large installations

For large installations

Item No.

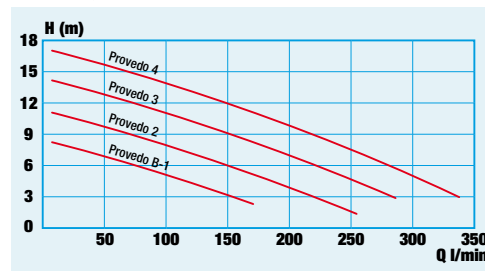
Provedo equipment for large installations with 2" suction inlet (outside thread), 1 1/2" discharge connector (inside thread).

● Provedo-2	UP 0126
● Provedo-3	UP 0127
● Provedo-4	UP 0128

Provedo	Maximum delivery rate	Maximum delivery head
2	260 l/min.	12.0 m (39 ft.)
3	280 l/min.	14.0 m (46 ft.)
4	330 l/min.	17.0 m (55 ft.)

Provedo

Operating characteristic at 2850 rpm



Fixed-mounted suction filter for submersible pumps

FINE filtering



SF 9921

SF 9924

FINE suction filter for fixed mounting

Item No.

Filter made entirely of stainless steel, with connector 1" outside thread or 1 1/4" inside thread, filter mesh size 0.3 mm (0.01 in.). With fitting for direct connection to 1 1/4" pump suction inlet.

● FAFF submersible pump connection with 1 1/4" brass elbow and screw connections	SF 9921
● FAFF extended version with 1" elbow with 1" outside thread	SF 9924

COARSE filtering



SG 0351

SG 0334

SG 0332

ZW 0500

COARSE suction filter for fixed mounting

Item No.

Filter made entirely of stainless steel, with connection with outside thread. Filter mesh size 1.2 mm (0.05 in.)

FAGF submersible pump connection

● 1" connection outside thread	SG 0331
● 1 1/4" connection outside thread	SG 0332
● 1 1/2" connection outside thread	SG 0333
● 2" connection outside thread	SG 0334
● 1" connection inside thread	SG 0351

Accessories

Item No.

● 90° elbow with nipple, for connection to SG 03 32, for 1 1/4" pump suction inlet	ZW 0500
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Floating suction filter sets WITHOUT non-return valve

The floating suction filters for submersible pressure pumps are available as a fine filter (SAFF) with mesh size 0.3 mm (0.01 in.) or as a coarse filter (SAGF) with mesh size 1.2 mm (0.05 in.). The fine filters are suitable for water which has not been pre-filtered, e.g. from open waters, storage tanks or fountains. To protect the pump, coarse suction filters should be used only with water which has been pre-filtered, especially rainwater from storage tanks or other containers. The models for submersible pressure pumps have no non-return valve. By contrast, the models for suction pumps are equipped with a non-return valve in order to maintain the suction column in the suction hose.

To aid selection of the correct filter type:

Suction pumps: *with* non-return valve

Pressure pumps: *without* non-return valve

SAFF submersible pump connection set consisting of:

- SAFF 1" without non-return valve
- Float dia. 15 cm (5.91 in.)
- Highly flexible suction hose, length 1 m (3.28 ft.)

► Available for 1" nozzle or with screw connections for 1 1/4" connector (inside thread)

Connection for nozzle

Connection for thread

1 1/4" version with suction hose with integral metal spiral, for higher-performance pumps.

SAFF set without non-return valve

Item No.

- | | |
|---|---------|
| ● Set for submersible pumps with 1" nozzle
SAFF 1", high-flexibility hose 1" | SS 9935 |
| ● Set for submersible pumps with 1 1/4" inside thread connector
SAFF 1", high-flexibility hose 1", with screw connection | SS 9931 |
| ● Set for submersible pumps with 1 1/4" inside thread connector
SAFF 1 1/4", suction hose 1 1/4", with screw connection | SS 9932 |

SAGF submersible pump connection set consisting of:

- SAGF 1" without non-return valve
- Float dia. 15 cm (5.91 in.)
- Highly flexible suction hose, length 1 m (3.28 ft.)

SAGF set without non-return valve

Item No.

- | | |
|---|---------|
| ● Set for submersible pumps with 1" nozzle
SAGF 1", high-flexibility hose 1" | SS 9905 |
| ● Set for submersible pumps with 1 1/4" inside thread connector
SAGF 1", high-flexibility hose 1", with screw connection | SS 9901 |
| ● Set for submersible pumps with 1 1/4" inside thread connector
SAGF 1 1/4", suction hose 1 1/4", with screw connection | SS 9902 |

Water extracted from clear water area of rainwater storage tank!



FINE filtering
with 0.3 mm (0.01 in.)
mesh size



COARSE filtering
with 1.2 mm (0.05 in.)
mesh size

Floating suction filter sets WITH non-return valve



FINE filtering
with 0.3 mm (0.01 in.)
mesh size

Filter body with stainless-steel filter mesh, mesh size 0.3 mm (0.01 in.), with non-return valve. Float made of environmentally friendly polyethylene.

SAFF suction pump connection set consisting of:

- SAFF 1", with non-return valve,
- Float dia. 15 cm (5.91 in.)
- Highly flexible suction hose, attached by stainless-steel hose clamps,
- 90° PE elbow connector to PE pipe 32 x 3 mm (1").



Connection for PE pipe

SAFF set with non-return valve

Item No.

Set with floating fine suction filter
SAFF with non-return valve

- With 2 m (6 ½ ft.) suction hose
- With 3 m (10 ft.) suction hose

SZ 9801
SZ 9802



COARSE filtering
with 1.2 mm (0.05 in.)
mesh size

Filter body with stainless-steel filter mesh, mesh size 1.2 mm (0.05 in.), with non-return valve. Float made of environmentally friendly polyethylene.

SAGF suction pump connection set consisting of:

- SAGF 1", with non-return valve,
- Float dia. 15 cm (5.91 in.)
- Highly flexible suction hose, attached by stainless-steel hose clamps,
- 90° PE elbow connector to PE pipe 32 x 3 mm (1").



Connection for PE pipe

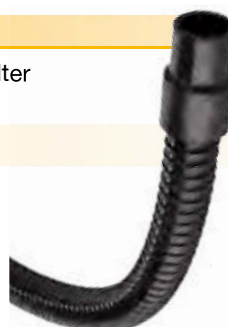
SAGF set with non-return valve

Item No.

Set with floating coarse suction filter
SAGF with non-return valve

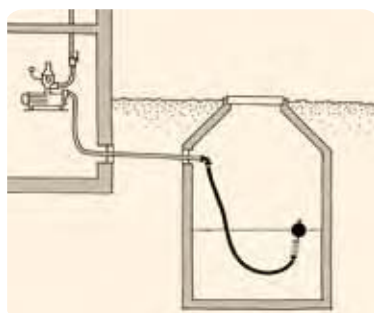
- With 2 m (6 ½ ft.) suction hose
- With 3 m (10 ft.) suction hose

SZ 9811
SZ 9812



Note!

Flexible hose can only be used with suction pumps which are controlled by a pump controller with non-return valve! Expansion tanks with pressure switch only are not suitable!



Floating FINE suction filter (SAFF)



FINE filtering
with 0.3 mm (0.01 in.)
mesh size



For extracting rainwater from rainwater storage tanks and other containers or from ponds and fountains. Float made of environmentally friendly polyethylene. All other parts made of stainless steel. The nozzles at the floating filters are rounded in order to protect the hoses. The hose remains fully functional and durable even when the float frequently changes position in the tank. The nozzles are also equipped with a flared collar to allow secure attachment of the hose.

Fine filter mesh size **0,3 mm (0.01 in.)**.

Connection	Filter surface	Height x dia.	Float
1"	380 cm ²	120 mm x 120 mm	dia. 15 cm
1¼"	380 cm ²	120 mm x 120 mm	dia. 15 cm
1½"	800 cm ²	170 mm x 220 mm	dia. 22 cm
2"	1100 cm ²	235 mm x 220 mm	dia. 22 cm

Standard	Item No.	Price/€
● SAFF with float dia. 15 cm (5.91 in.) <i>With integrated non-return valve</i>		
With 1" hose nozzle	SZ 9924	
With 1¼" hose nozzle	SZ 9925	
● SAFF with float dia. 15 cm (5.91 in.) <i>Without non-return valve</i>		
With 1" hose nozzle	SZ 9935	
With 1¼" hose nozzle	SZ 9936	
With 1" outside thread	SZ 9926	

For large installations	Item No.
● SAFF with float dia. 22 cm (8.66 in.)	
With 1½" outside thread	SZ 9930
With 2" outside thread	SZ 9931

Accessories and components/spare parts for large installations	Item No.
● Hose nozzle made of stainless steel, with non-return valve	
With 1½" nozzle (<i>for Item No. SZ 9930</i>)	RT 0330
With 2" nozzle (<i>for Item No. SZ 9931</i>)	RT 0331
● Stainless-steel hose clamp	
1½", 45–60 mm clamping range	SS 0305
2", 55–70 mm clamping range	SS 0306
● 2-part brass hose fitting, Nordic, flat-sealing	
1½" nozzle, 1½" union nut	ZV 0464
2" nozzle, 2" union nut	ZV 0465

Floating COARSE suction filter (SAGF)

For extracting clean rainwater from storage tanks and other containers. With float made of environmentally friendly polyethylene. All other parts made of stainless steel.

Filter mesh size **1.2 mm (0.05 in.)**



COARSE filtering
with 1.2 mm (0.05 in.)
mesh size



Connection	Filter surface	Height x dia.	Float
1"	165 cm ²	110 mm x 60 mm	dia. 15 cm
1¼"	165 cm ²	110 mm x 60 mm	dia. 15 cm
1½"	380 cm ²	150 mm x 100 mm	dia. 15 cm
2"	380 cm ²	150 mm x 100 mm	dia. 15 cm

Standard

Item No.

- SAGF with float dia. 15 cm (5.91 in.) with hose nozzle.

With integrated non-return valve

With 1" hose nozzle

SZ 9915

With 1¼" hose nozzle

SZ 9916

- SAGF with float dia. 15 cm (5.91 in.) with hose nozzle.

Without non-return valve

With 1" hose nozzle

SZ 9927

With 1¼" hose nozzle

SZ 9928

For large installations

Item No.

- SAGF with float dia. 15 cm (5.91 in.) with hose nozzle

With integrated non-return valve

With 1½" hose nozzle

SZ 9917

With 2" hose nozzle

SZ 9918

- SAGF with float dia. 15 cm (5.91 in.) with hose nozzle.

Without non-return valve

With 1½" hose nozzle

SZ 9990

With 2" hose nozzle

SZ 9991

WISY rainwater storage tanks with complete equipment



WISY rainwater storage tanks are compression-resistant vessels made of environmentally friendly polyethylene which are manufactured seamlessly in one piece. They are designed for installation outdoors, in halls or below ground.

WISY storage tanks are extremely stable, making them the ideal solution for every application. They have vehicle-duty capacity. Due to its lightweight the storage tank can be moved and installed with light lifting equipment or lifting straps.

When the excavated pit is filled up with gravel the storage tanks is fully supported from below. The storage tanks are equipped with a child safety device (tested by German Technical inspection authority) and a non-slip cover. The tanks have two rugged lifting eyes to lift or lower the tank into the excavation pit. For additional safety the tanks have a compressed water equalizing valve in the base of the tank for the event that groundwater collects around the tank.

The benefits!

● Leak-tight

Tanks manufactured without seams from environmentally friendly polyethylene

● Easy to service

Large access shaft (dia. 70 cm (2.3 ft.) for ease of entry for maintenance work

● Clean

Smooth inside walls prevent build-up of deposits and ensure good hygiene and water quality

● Light

Low weight, making them easy to transport and handle on site

● Ready to connect

Quick and easy to install with pipe bushings DN 100 with fitted seals

● Safe

Non-slip cover with certified (by TÜV) child safety device

● 20-year guarantee

on the durability of the tank materials.

NEW 20-year guarantee

Rainwater inlet

Freely rotatable rainwater inlet DN 100

Outlet to storm drain

Only one tube required for storm drain connection.

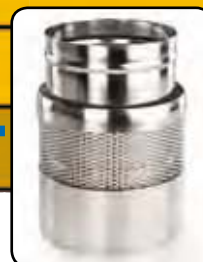


Cover with child safety device

Pipe bushing
e.g. for hose and cable

Multisiphon
keeps the surface clean

Smooth inlet
prevents resuspension of sediment.



Stable
base shape

Special note!

If the tank is installed below ground, it must be positioned at a sufficient distance from ground-water sources (i.e. perched water table in hillsides).

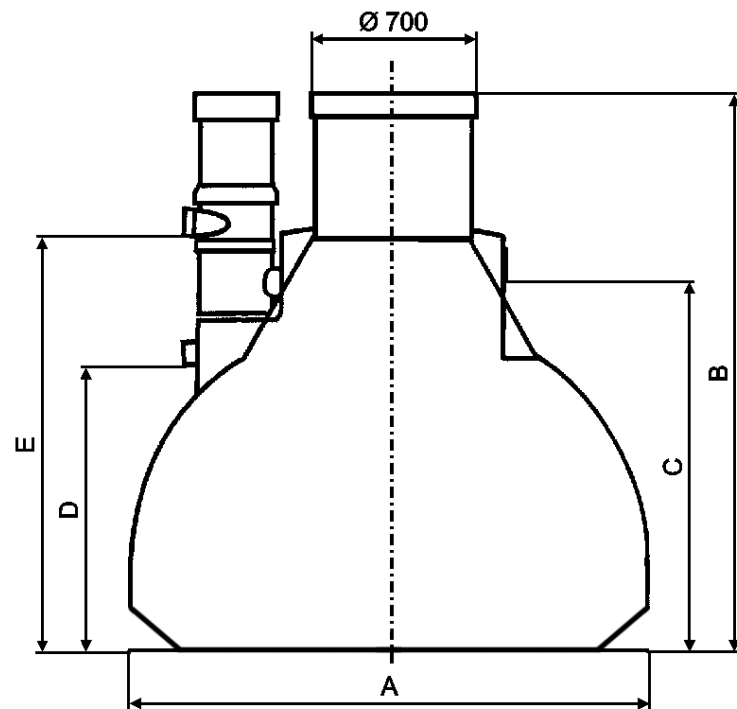
WISY makes the adjustment possible!

WISY storage tanks have a defined height which can be reduced by shortening the access shaft or increased using an extension tube in order to adapt the storage tank to ground level. The height of the tank can be shortened or extended about 30 cm (11.8 inch.) maximum.

Rainwater storage tanks with complete equipment

Item No.

● 4.5 m ³ (US: 1188 gallons) volume	
Aluminium cover, pedestrian duty	RS 1450
Steel cover, vehicle duty	RS 1460
● 5.5 m ³ (US: 1451 gallons) volume	
Aluminium cover, pedestrian duty	RS 2450
Steel cover, vehicle duty	RS 2460
● 6.5 m ³ (US: 1715 gallons) volume	
Aluminium cover, pedestrian duty	RS 3450
Steel cover, vehicle-duty	RS 3460



Item No.	Volume	Weight (kg)	Diameter A	Tank height B	Service duct connection C	Storm drain connection D	Rainwater inlet E
RS 1450 / RS 1460 RS 1100 / RS 1110	4.5 m ³	250 220	dia. 2350	2510	1690	1285	1895
RS 2450 / RS 2460 RS 2100 / RS 2110	5.5 m ³	280 250	dia. 2350	2770	1950	1545	2155
RS 3450 / RS 3460 RS 3100 / RS 3110	6.5 m ³	310 280	dia. 2350	3020	2200	1795	2405

All dimensions (in mm) may vary as a result of manufacturing tolerances. The dimensions of the pipes and bushings refer in each case to the bottom of the pipe.





**NEW 20-year
guarantee**

Basic equipment:

The WISY rainwater storage tank with a cover, child safety device and end ring.

The covers are available in aluminium (pedestrian duty) or steel (vehicle duty) (vehicles as defined by DIN 1072).

Two rugged lifting eyes in end ring.

Three connection bores in the tank wall with tank seals DN 100 and plugs DN 100

Rainwater storage tanks - basic equipment	Item No.
● 4.5 m ³ (US: 1188 gallons) volume	
Aluminium cover, pedestrian duty	RS 1100
Steel cover, vehicle duty	RS 1110
● 5.5 m ³ (US: 1451 gallons) volume	
Aluminium cover, pedestrian duty	RS 2100
Steel cover, vehicle duty	RS 2110
● 6.5 m ³ (US: 1715 gallons) volume	
Aluminium cover, pedestrian duty	RS 3100
Steel cover, vehicle duty	RS 3110

WISY storm water retention storage 6.5m³ with complete equipment

WISY storm water retention tanks offer an additional retention volume with throttled outlet in addition to the useful volume for rainwater harvesting. The retention volume and outlet must be selected according to urban land use planning guidelines.

*The WISY
rainwater
storage tank
is also available
as a combined
rainwater/storm
water retention
tank*

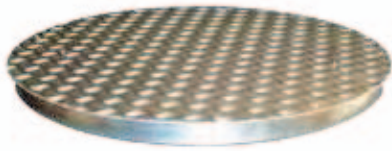
The WISY retention tanks 6.5 m³ made of PE offer:

- Full functionality with vortex fine filter, smooth inlet, multisiphon overflow
- Retention volume of 1500 l, 2000 l or 2500 l is possible
- Floating coarse suction filter (SAGF) with throttle to regulate volumetric flow rates
- Plug-in system, shipped with all parts pre-assembled
- Storage tank access shaft with end ring, child safety device and aluminium pedestrian-duty cover or optionally steel vehicle-duty cover

6 m ³ retention storage*	Item No.
● 1500 l retention volume	
with pedestrian-duty aluminium cover	RT 3350.15
with steel cover, vehicle-duty	RT 3360.15
● 2000 l retention volume	
with pedestrian-duty aluminium cover	RT 3350.20
with steel cover, vehicle-duty	RT 3360.20
● 2500 l retention volume	
with pedestrian-duty aluminium cover	RT 3350.25
with steel cover, vehicle-duty	RT 3360.25

* With rainwater inlet DN 100, inlet DN 150 also available.

Steel or aluminium cover



Child safety device



Intermediate ring

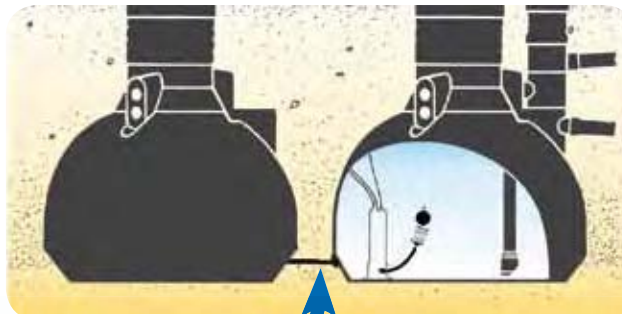


Extension tube for rainwater storage tanks



Wall bushing for house and tank walls

Recommended accessories for rainwater storage tanks	Item No.
● Extension tube for rainwater storage tank (PE), to raise inspection opening to ground level. Yellow. dia. 70 cm (2.3 ft.), per 10 cm (4 in.)	RV 1010
● Extension tube for vortex fine filter (PP), to raise inspection opening to ground level. dia. 30 cm (11.8 in.), length 50 cm (1.6 ft.), see page 6	WV 1010
● Intermediate ring for rainwater storage tank. Required to connect the extension tube	RS 1020
● End ring with certified child safety device required to connect steel or aluminium cover	RA 1020
● Steel cover, zinc-plated, non-slip, vehicle duty acc. to ATV A127	RS 1030
● Non-slip aluminium cover, pedestrian duty according to DIN 1989-3	RS 1031
● Soakaway strainer for vortex fine filter	VS 0304
● Wall bushing WD 110/2 with six bores: 1 x 50 mm (2 in.) diameter, for mains water feed 1 x 32 mm (1.4 in.) diameter, for pressure or suction line (1" PE tube) 3 x 10 mm (0.4 in.) diameter for electric cable 1 x 6 mm (0.2 in.) diameter for electric cable	WD 2110
● Tank connection set for coupling two rainwater storage tanks to create one unit. Consists of: Two brass tank bushings and 2 m (6.5 ft.) flexible tube, DN 40	RS 1040
● Blind insert for vortex fine filter	BE 0302



When 2 storage tanks are connected by a flexible hose, make sure that there is some slack in the flexible hose.



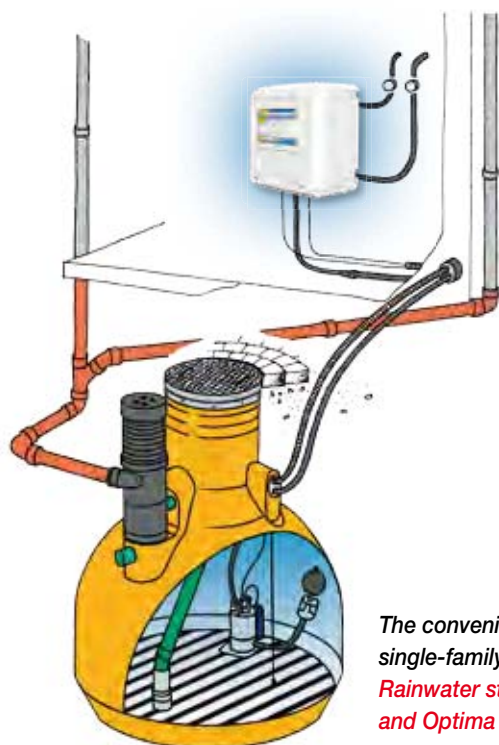
Tank connection set

Complete rainwater harvesting installations

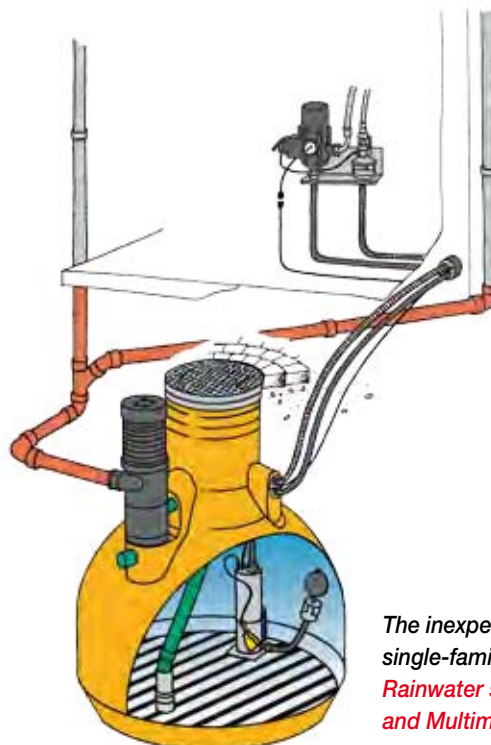
Complete installations

WISY rainwater harvesting installations consist of:

WISY rainwater storage tank and WISY rainwater unit



*The convenient solution for single-family/two-family homes:
Rainwater storage tank and Optima*



*The inexpensive solution for single-family/two-family homes:
Rainwater storage tank and Multimat*

Complete installation	Item No.
with Optima rainwater unit	
● Rainwater storage tank 5,5 m ³ (US: 1452.95 gallons) with complete equipment, consists of WFF 100, inflow calming, multisiphon, pedestrian duty*	RS 2450
● Optima 4 without level indicator, with floating suction filter	RW 9924
● Hose connection set for Optima, consisting of two hose assemblies and two ball valves.	RW 7800
● 2 surface-mounted water meters	RW 7010
● Wall bushing WD 100 with 4 bores	WD 1100
● Pressure hose 1", length 10 m	DS 2003
● 1" nozzle with union nut	ZV 0462
● Hose clamp 1", 2 units	SS 0303
Package price:	KA 4043

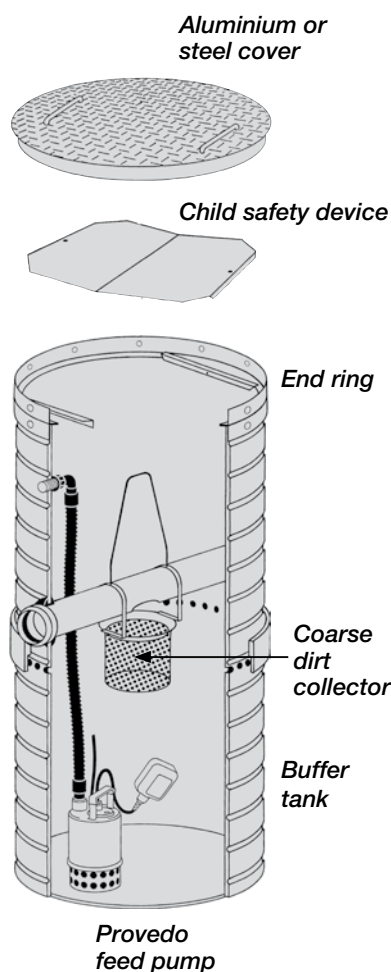
Complete installation	Item No.
with Multimat rainwater unit	
● Rainwater storage tank 5,5 m ³ (US: 1452.95 gallons) with complete equipment, consists of WFF 100, inflow calming, multisiphon, pedestrian duty*	RS 2450
● Multimat with Multigo 205	RW 9008
● Hose connection set for Multimat, consisting of two hose assemblies and two ball valves	RW 7001
● 2 surface-mounted water meters	RW 7010
● Wall bushing WD 110/2 with 6 bores	WD 2110
● Adapter flexible tube to tundish	WD 2021
● Flexible tube DN 50, 25 m roll	WD 2000
● Pressure hose, length 10 m	DS 2003
● 3-part brass standpipe connector	ZV 0452
● Hose clamp 1", 2 units	SS 0303
Package price:	KA 4517

*Extra-charge for vehicle-duty version: € 100.00

An empty tube DN 100 must be planned between the storage tank and utility room and installed along a gradient to the tank.

For biologically active surface infiltration of rainwater

The excess rainwater from storage tank overflow and drainage through the filter flows into the soakaway system. When the maximum level is reached, water is automatically pumped to the surface as a fountain and then allowed to infiltrate back into the ground. The pump switches off when the tank is empty until the maximum level is reached again. Frost proof.



Soakaway systems

Item No.

- Soakaway system

SI 1000

Consists of:

Buffer tank (PE), pedestrian-duty, non-slip manhole cover (aluminium) with child safety device

PE inlet tube DN 100. Removable coarse dirt collector (made of stainless steel)

Provedo feed pump with float switch and direct suction for on and off intervals, 1" nozzle at discharge end

Outlet connection 1" outside thread, for open soakaway at any location

Tank height 145 cm (58.09 in.), tank diameter 70 cm (2.3 ft.)

Components/spare parts/accessories

Item No.

- Extension tube (PE) to raise inspection opening to ground level.
Dia. 70 cm (2.3 ft.), length selectable
up to max. 140 cm (4.5 ft.) price per 10 cm (4 in.)

RV 1010

- Intermediate ring, required to connect the extension tube

RS 1020

- End ring with certified child safety device required to connect the aluminium cover

RA 1020

- Coarse dirt collector with lifting handle

SI 1050

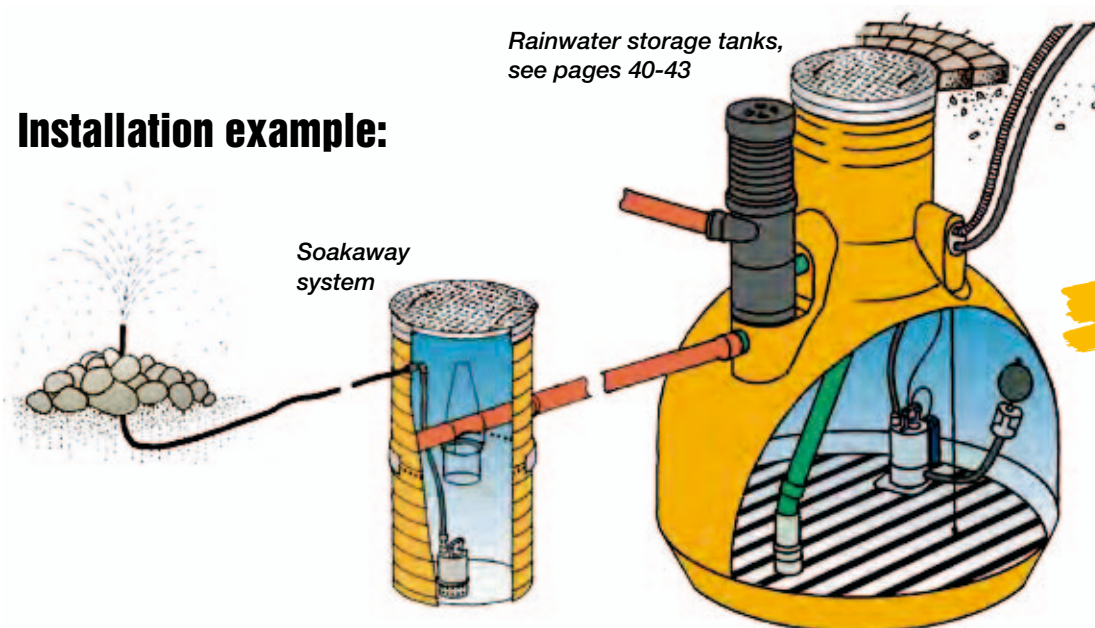
- Provedo feed pump with float switch

UP 1113

- Non-slip aluminium cover, pedestrian-duty according to DIN 1989-3

RS 1031

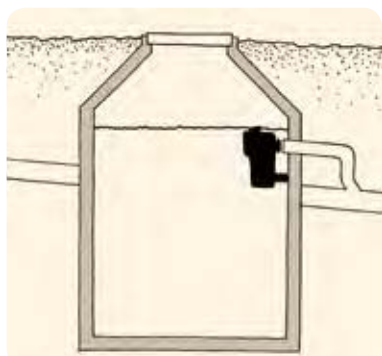
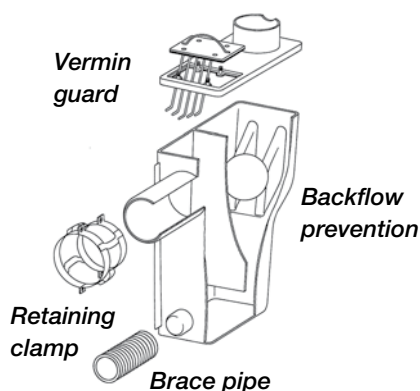
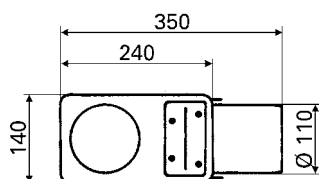
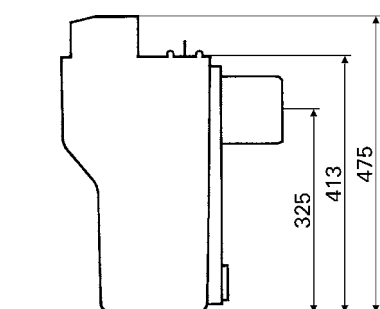
Installation example:



WISY advocates
biologically
active surface
infiltration!



Multisiphon and retaining clamp



Storm drain or soakaway

Multi-functional overflow for rainwater storage tank

Made of impact-resistant ABS plastic. For connection to the tank overflow (DN 100). Surface debris removed by skimming effect. Prevents storm drain odours from reaching the storage tank. Brace pipe prevents tilting or tipping. Large siphon volume 6 l (1.5 gallons).

► Available in different versions:

*With or without drain backflow prevention
with or without vermin guard*

The version with integrated drain backflow prevention is delivered with a retaining clamp for connection to a DN 100 (3.9 in.) pipe.

The passive vermin guard is made of stainless steel and is easy to remove for maintenance.

Multisiphon

Item No.

- Multisiphon with drain backflow prevention
without vermin guard US 1004
- with vermin guard US 1002
- Multisiphon without drain backflow prevention
without vermin guard US 1005
- with vermin guard US 1003

Exclusively from WISY!



6 functions in one!

- Odour seal
- Vermin guard
- Backflow prevention
- Overflow with skim effect
- Gas barrier

Accessories

Item No.

- Stainless-steel retaining clamp
for connection to a DN 100 (3.9 in.) pipe US 1010

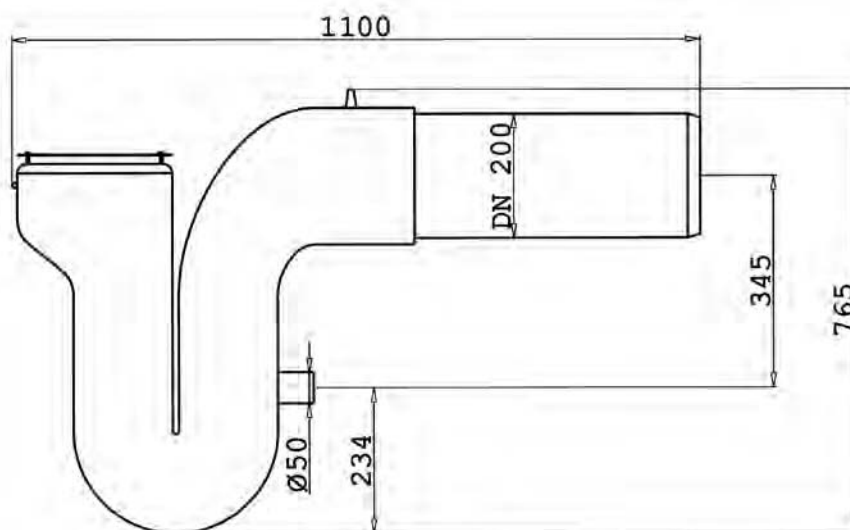


Siphon

Item No.

- Overflow siphon DN 200 made of stable polyethylene for storage tanks. Suitable for combination with the WFF 300 vortex filter. With odour seal, vermin guard, brace pipe, 2 x 1 m (3.28 in.) stainless-steel chain for attaching to ceiling or wall

US 2000



Smoothing inlet



Prevents resuspension of sediment and distributes the fresh, oxygen-rich rainwater in the storage tank.

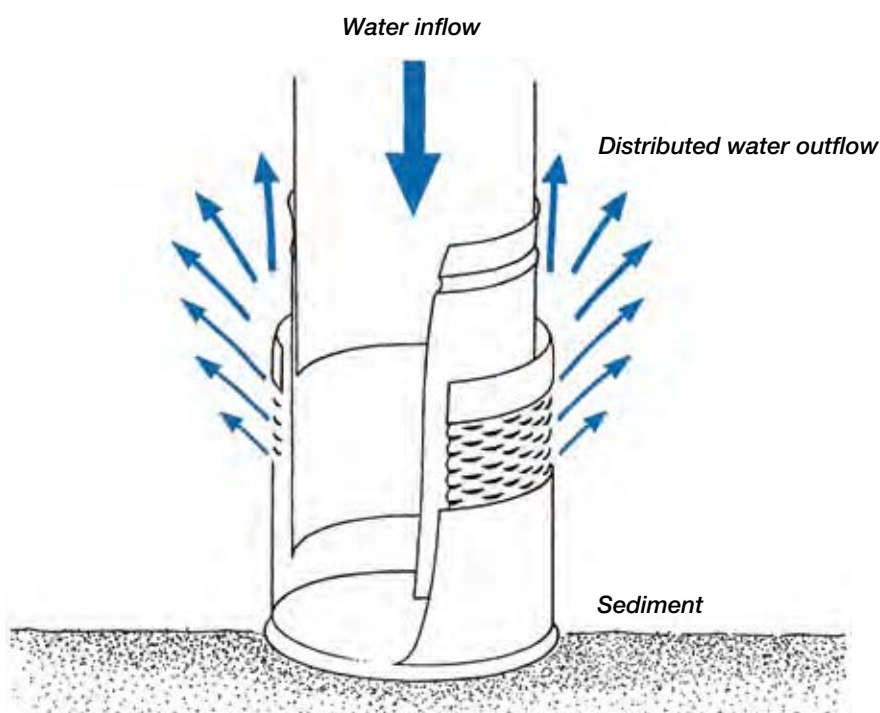
Stainless steel smoothing inlet

Item No.

- Smoothing inlet for DN 100 EB 0300
- Smoothing inlet for DN 200, inside diameter 204 mm (8.03 in.) EB 0303
- Smoothing inlet inside diameter 222 mm (8.74 in.) EB 0304



- ▶ Smoothing inlet DN 200 compatible with WISY WFF 300 vortex fine filter



Level indicator (pneumatic)



Level indicator

Indicates the fill level of the storage tank in per cent. Pneumatic measuring instrument for remote measurement at distances up to 50 m. Steplessly adjustable for tanks with maximum fill levels from 1 to 2.5 metres.

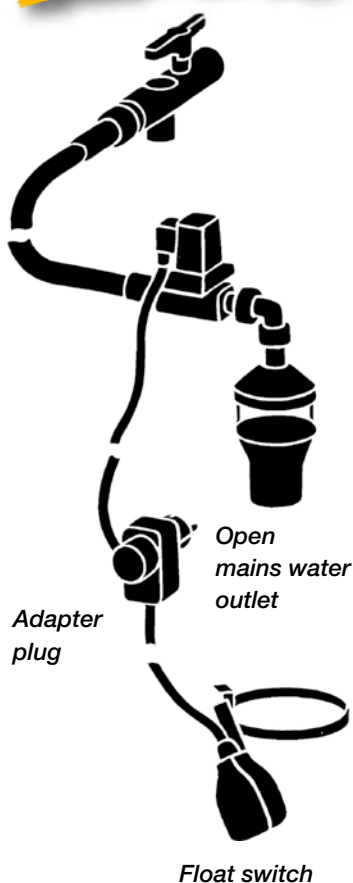
Impact-resistant plastic casing. With 10 m measuring lead and fixings.

Level indicator	Item No.
Level indicator	
● with manual actuation pump	FA 99 10
● with electric pump	FA 99 11

Accessories	Item No.
● Measuring lead extension for longer distances to storage tank, length 10 m	FA 99 15

Mains water top-up set

**Complete set of
ready-to-use
components!**

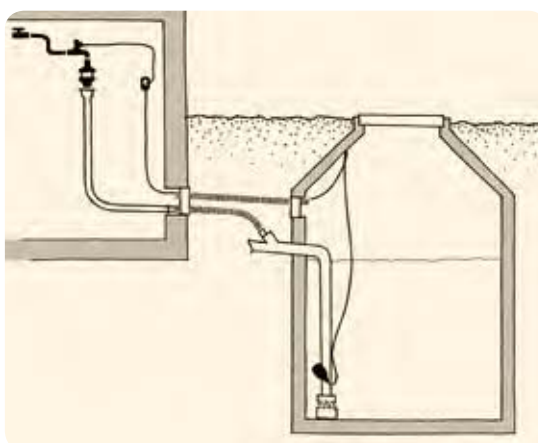


For mains water top-up, tops up the rainwater storage tank with mains water as required during prolonged dry spells (daily requirement for single-family home). Complies with DIN EN 1717.

Top-up set comprising:

- Open mains water outlet ½" (*Item No. TW 9901*)
- Adapter plug (*Item No. SS 0149*)
- Float switch for top-up, with retaining clamp, 3 m, 10 m or 20 m (9 ft., 32 ft. or 65 ft.) connecting cable (*see item numbers SS 1001, SS 1002 or SS 1003*)

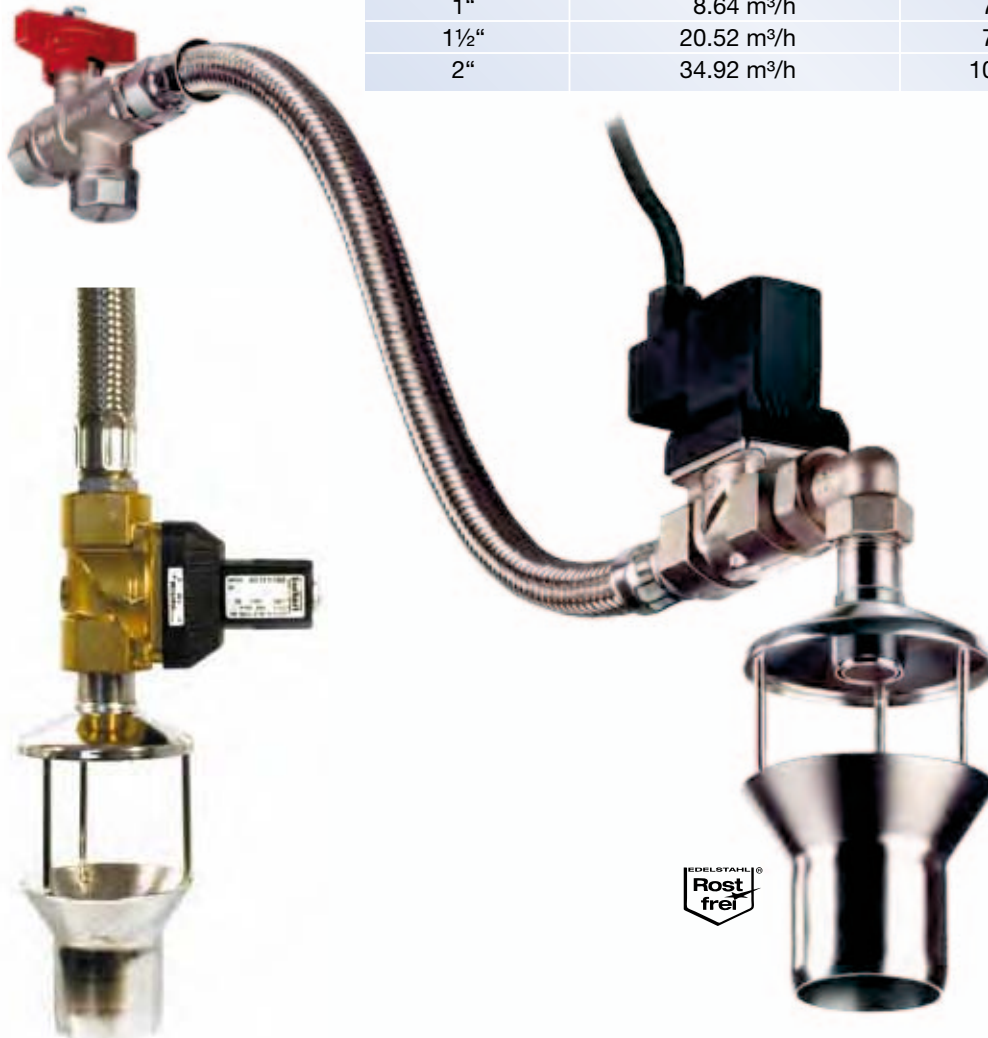
Top-up set	Item No.
Top-up set	
● with 3 m (9 ft.) connecting cable	TW 8803
● with 10 m (32 ft.) connecting cable	TW 8810
● with 20 m (65 ft.) connecting cable	TW 8820



Mains water top-up with open outlet, ready to install. Electrically controlled. Comprises a stainless steel tundish with nozzle for splash-free inflow, solenoid valve with connecting cable and electric plug, connecting tube with stainless steel braiding and brass ball valve with stainless steel dirt trap (*mesh width 0.65 mm (0.03 in.)*).

► Available from ½" to 2". Complies with DIN EN 1717.

Connection	Water top-up rate with 3 bar system pressure	Connecting hose	Tundish
½"	2.64 m³/h	50 cm	DN 50
¾"	6.48 m³/h	50 cm	DN 50
1"	8.64 m³/h	75 cm	DN 70
1½"	20.52 m³/h	75 cm	DN 100
2"	34.92 m³/h	100 cm	DN 100



½" open mains water outlet

Straight design, with ¾", 1", 1½", 2" versions

Open mains water outlet	Item No.
● ½"	TW 9901
● ¾"	TW 9909
● 1"	TW 9903
● 1½"	TW 9905
● 2"	TW 9907
Components/spare parts	Item No.
Stainless-steel tundish with nozzle	
● ½"	TW 9902
● ¾"	TW 9910
● 1"	TW 9904
● 1½"	TW 9906
● 2"	TW 9908

Float switch

**Economical
mains water top-up
thanks to 4 cm (1.6 in.)
switching cycle!**



Float switch for mains water top-up (yellow)

Item No.

Float switch for controlling top-up with mains water. For attachment to the inlet pipe or the submersible pump. The switch lever defines the switching points so precisely that the water level rises by only 4 cm (daily requirement for single-family home). Switch lever and retaining clamp (for pipe diameter of 110 – 130 mm / 4 – 5 in.) made of stainless steel.

Float housing (yellow), butt-spliced, made of polypropylene.

With flexible connecting cable 3 x 1 mm². *(without adapter plug).*

- | | |
|---|---------|
| ● with 3 m (9.8 ft.) connecting cable | SS 1001 |
| ● with 10 m (32.8 ft.) connecting cable | SS 1002 |
| ● with 20 m (65.6 ft.) connecting cable | SS 1003 |

Components/spare parts

Item No.

Float switch *(mains top-up)*,

without switch lever and clamp

- | | |
|---|---------|
| ● with 3 m (9.8 ft.) connecting cable | SS 1021 |
| ● with 10 m (32.8 ft.) connecting cable | SS 1022 |
| ● with 20 m (65.6 ft.) connecting cable | SS 1023 |

Float switch for dry run protection (red)

Item No.

Float switch to turn off pump when water level in tank is too low. For attachment to the inlet pipe or the submersible pump. When the water level in the tank reaches the minimum required level again, the pump is released for operation again by the float switch. With switch lever for precise definition of switching points, with 4 cm (1.6 in.) switching cycle.

Switch lever and retaining clamp (for pipe diameter of 110 – 130 mm / 4 – 5 in.) made of stainless steel.

Float housing (red), butt-spliced, made of polypropylene.

With flexible connecting cable 3 x 1 mm². *(without adapter plug).*

- | | |
|---|---------|
| ● with 3 m (9.8 ft.) connecting cable | SS 1011 |
| ● with 10 m (32.8 ft.) connecting cable | SS 1012 |
| ● with 20 m (65.6 ft.) connecting cable | SS 1013 |

Components/spare parts

Item No.

Float switch *(dry run protection)*,

without switch lever and clamp

- | | |
|---|---------|
| ● with 3 m (9.8 ft.) connecting cable | SS 1031 |
| ● with 10 m (32.8 ft.) connecting cable | SS 1032 |
| ● with 20 m (65.6 ft.) connecting cable | SS 1033 |

Accessories

Item No.

- Adapter plug for connection of float switch control cable

SS 0149



Quick to install:
Float switches can be safely fitted to
the pump housing of the Multigo
submersible pressure pump!





Suction hose with push-fit connections

High-flexibility suction hose in pre-cut lengths for pumping water. Made of polyurethane (PU) with integral steel spiral. Maximum vacuum -0.8 bar (-11.6 psi). Both ends with push-fit connection to fit 1" hose nozzles (DN 25).

Suction hoses	Item No.
Suction hose in pre-cut lengths	
● Length 0.75 m (2.5 ft.)	AS 3001
● Length 1.00 m (3.3 ft.)	AS 3002
● Length 1.50 m (5 ft.)	AS 3003
● Length 2.00 m (6.5 ft.)	AS 3004
● Length 2.50 m (8 ft.)	AS 3005
● Length 3.00 m (9.8 ft.)	AS 3006

Hose couplings



Hose couplings made of stainless steel.

Hose coupling	Item No.
● Double-ended hose coupling, each end 1"	SV 1000



Hose nozzle	Item No.
with non-return valve	
● 1" nozzle, direction of flow from thread to nozzle	ST 1010
● 1 1/4" nozzle, direction of flow from thread to nozzle	ST 1011
Without non-return valve	
● 1" nozzle	ST 1100

Suction and pressure hoses



Suction and pressure hose

Spiral suction and pressure hose with synthetic reinforcing and spring steel spiral. The suction and pressure hose is suitable for pumping water. Material: PVC Compound (synthetic granulate); free of pores and smooth; abrasion-resistant, weatherproof, ozone-resistant, resistant to ageing. Max. temperature resistance from -25°C to + 60°C. Max. vacuum -0.8 bar. Maximum pressure 12 bar.

Suction hose	Item No.
● 1" by the meter	AS 2003

Suction and pressure hose	Item No.
● 1 1/4" by the meter	AS 2004
● 1 1/2" by the meter	AS 2006
● 2" by the meter	AS 2007



1" Pressure hose

Pressure hose made of EPDM. For pumping water. Flexible, with synthetic textile reinforcing of high tensile strength.

Pressure hose	Item No.
● 1" by the meter max. operating pressure 15 bar (290 psi)	DS 2003

Pressure hose assemblies



VD 99 28

VS 99 53

Connecting hoses with stainless-steel braiding and pressed fittings. Brass connections. Flat-sealing.

Connecting hoses	Item No.
● 1" connecting hose, 1" nipple, 1" union nut Length 0.5 m (1.6 ft.)	VD 99 28
Length 0.75 m (2.5 ft.)	VD 99 29
Length 1.0 m (3.3 ft.)	VD 99 30
Length 1.50 m (5.0 ft.)	VD 99 31
Length 2.00 m (6.6 ft.)	VD 99 32
● ¾" connecting hose, length 0.5 m (1.6 ft.) with 90° elbow, 1" union nut and ¾" nipple	VD 99 34
with ¾" union nut and ¾" nipple	VD 99 50
with 2 x 1" union nut	VD 99 51
with 1" union nut and ¾" nipple	VD 99 53
● ¾" connecting hose with ¾" ball valve, 1" union nut and ¾" inside thread, length 0.5 m (1.6 ft.)	VS 99 53
● 1" connecting hose with 2 x 1" union nut, length 0.5 m (1.6 ft.)	VD 99 35
● ½" connecting hose with ½" union nut and ½" nipple, length 0.5 m (1.6 ft.)	VD 99 36

Flexible tubes and connecting parts



WD 2000 / WD 2001

For fast, easy and inexpensive installation.

All parts are connectable.

Flexible tubes	Item No.
Flexible tube (PE) flexible with draw cord. Inside diameter = 40 mm (1.57 in.), outside diameter = 50 mm (1.97 in.)	
● 25 m (82 ft.) roll	WD 2000
● 50 m (164 ft.) roll	WD 2001



WD 2020

Connecting parts	Item No.
● Adapter flexible tube – sewer pipe (PE), to connect the DN 50 flexible tube (for example for mains water top-up) to DN 100 sewer pipe.	WD 2020



WD 2021

● Adapter flexible tube – HT (PE) tube, to connect the DN 50 flexible tube to DN 50 HT tube. D =50	WD 2021
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WD 2010

● Flexible tube connector (PE), connects two DN 50 flexible tubes together.	WD 2010
--	---------

PE connectors

Item No.

- PE tube connectors, made of brass. To connect PE tube to hose.



PR 1016



PR 1011



PR 1015



PR 1010

PE tube connector, 90°, 32 mm x 1" nozzle

PR 1016

PE tube connector, 90°, 32 mm x 1" inside thread

PR 1011

PE tube connector, straight, 32 mm x 1" nozzle

PR 1015

PE tube connector, straight, 32 mm x 1" inside thread

PR 1010

Wall and tube bushings



WD 110



WD 110/2



WD 110
with 2-piece
plate

NEW



WD 100

Seals ducts at cable and pipe penetration points through tank and building walls. Consists of a 30 mm (1.2 in.) thick rubber disk with two stainless-steel plates and clamp bolts. With integrated electric cable seal. Can be used only for „non-pressurized“ water. The designations WD 100, WD 110 refer in each case to the outside diameter of the wall duct.

► *When a standard sewer pipe with DN 100 is used, the wall bushing WD 100 fits exactly into the pipe and the wall bushing WD 110 into the collar.*

Wall bushings

Item No.

- Wall bushing WD 110 contains two bores:

1 x dia. 50 mm (2 in.), for cable conduit, for max. three electric cables

1 x dia. 32 mm (1 ¼"), for pressure or suction line (1" PE pipe)

WD 1110

- Wall bushing WD 110/2 contains six bores:

1 x 50 mm (2 in.) diameter, for mains water top-up pipe

1 x 36 mm (1.4 in.) diameter, for pressure or suction line (1" PE tube)

3 x 10 mm (0.4 in.) diameter for electric cable

1 x 6 mm (0.2 in.) diameter for electric cable

WD 2110

- Wall bushing WD 110, with 2-piece plate:

for retro-installation with existing pipework. The steel plates consist in each case of two halves, cables and tubes can be inserted through the rubber plate.

1 x 50 mm (2 in.) diameter, for mains water top-up pipe

1 x 36 mm (1.4 in.) diameter, for pressure or suction line (1" PE tube)

3 x 10 mm (0.4 in.) diameter for electric cable

1 x 6 mm (0.2 in.) diameter for electric cable

WD 2100

- Wall bushing WD 100 contains four bores:

1 x 36 mm (1.4 in.) diameter, for pressure or suction line (1" PE tube)

2 x 10 mm (0.4 in.) diameter for electric cable

1 x 6 mm (0.2 in.) diameter for electric cable

WD 1100

Tank seal



Seals sewer pipe at penetration points, e.g. in rainwater storage tanks. For wall thickness 5 – 16 mm (0.2 – 0.6 in.) or 5 – 10 mm (0.3 – 0.4 in.), diameter DN 100 (3.9 in.), to fit bore hole diameter 127 mm (5 in.).

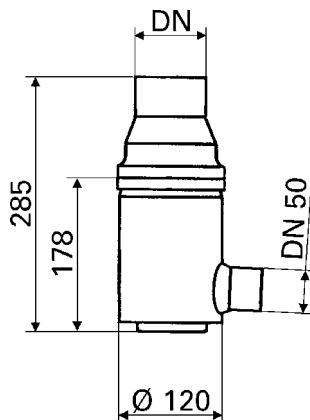
Tank seal

Item No.

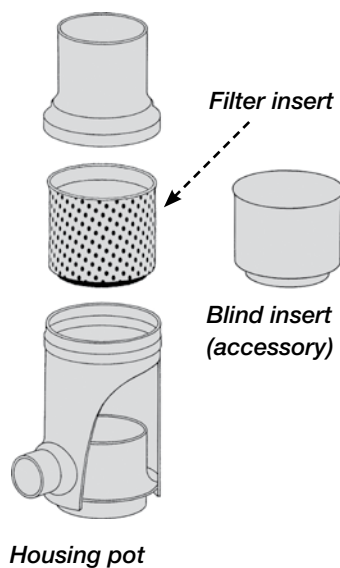
- for tank wall thickness 5 - 16 mm (0.2 – 0.6 in.)

RS 1050

Garden rainwater collector (GRS)



Upper housing



With automatic overflow protection, frost-proof, made of stainless steel.

Specially designed for garden rainwater barrels. For installation in rainwater downspouts/ downpipes. Made entirely of stainless steel. Outlet to rainwater barrel: DN 50. Drainage safety according to DIN EN 12056 / EN 752, complies with DIN 1989.

- Available with or without filter insert (mesh size 0.44 mm (0.02 in.)
Extremely low-maintenance filter insert. Can simply be cleaned in a dishwasher.

Garden rainwater barrel

Item No.

For metal downspouts / downpipes

- with filter insert, height 10.5 cm (4 in.)

GRS 100 VA for nominal size (DN)	100 (3.9 in.)	15711
GRS 87 VA for nominal size (DN)	87 (3.4 in.)	15712
GRS 80 VA for nominal size (DN)	80 (3.1 in.)	15713
GRS 76 VA for nominal size (DN)	76 (2.9 in.)	15714

● without filter insert

- | | | |
|----------------------------------|---------------|-------|
| GRS 100 VA for nominal size (DN) | 100 (3.9 in.) | 15701 |
| GRS 87 VA for nominal size (DN) | 87 (3.4 in.) | 15702 |
| GRS 80 VA for nominal size (DN) | 80 (3.1 in.) | 15703 |
| GRS 76 VA for nominal size (DN) | 76 (2.9 in.) | 15704 |

For plastic downspouts / downpipes

- with filter insert, height 10.5 cm (4 in.)

GRS 110 VA for nominal size (DN)	100 (3.9 in.), with outside diameter 110 mm (4.3 in.)	15715
GRS 76 VA for nominal size (DN)	70 (2.8 in.), with outside diameter 75 mm (3 in.)	15714

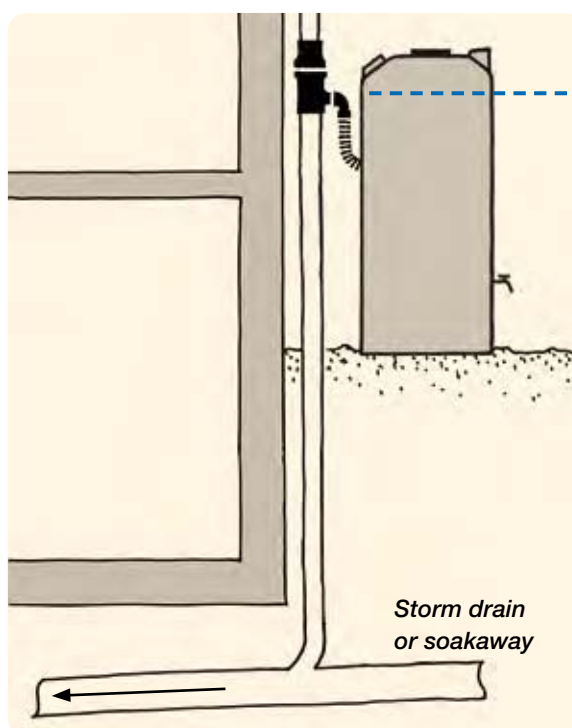
● without filter insert

- | | | |
|----------------------------------|---|-------|
| GRS 110 VA for nominal size (DN) | 100 (3.9 in.), with outside diameter 110 mm (4.3 in.) | 15705 |
| GRS 76 VA for nominal size (DN) | 70 (2.8 in.), with outside diameter 75 mm (3 in.) | 15704 |

Components/spare parts/accessories

Item No.

- Filter insert of stainless steel, fits all nominal sizes.
Filters the rainwater from the roof. Height 10.5 cm (4 in.)
Mesh size 0.44 mm (0.02 in.) 15801
- Blind insert of stainless steel, fits all nominal sizes.
Ensures direct flow of rainwater into storm drain. 15802



With automatic
overflow protection



For collecting rainwater. Tanks manufactured without seams from environmentally friendly and physiologically harmless polyethylene.

The solid wall thickness guarantees long life and frost resistance.

The storage volume of a Stabilix barrel of 500 l (US: 132 gallons) can be enlarged by connecting an optional number of Stabilix rainwater barrels to form one unit. The opaque colour (dark green) prevents the formation of algae. *The cover closes tightly to prevent flying insects from laying eggs inside the barrel.*

The rainwater barrel has a connection for a watering can tap and a free standing external pump. Thanks to its compact dimensions (dia. 70 cm / 27.6 in.), the Stabilix garden rainwater barrel fits through any standard basement door and can be used in the utility area.

Models

Item No.

● Stabilix 1 rainwater barrel

Rainwater collector inlet with seal for inlet connection 1 1/4", with blind plug, suitable for connecting hose 15803, pump connection/drain outlet 3/4" inside thread with 3/4" sealing plug, with prepared tap connection for watering can 3/4" (tap optional), rainwater barrel with screw cover DN 400

GT 5100

Accessories for Stabilix rainwater barrel

Item No.

● 3/4" drain tap

ZH 0402

● Rainwater barrel connecting hose, 1 1/4".

Connects the garden rainwater filter/collector with a rainwater barrel. UV-resistant plastic spiral hose, length 42 cm (12.5 in.), with tension ring.

15803

● Rainwater barrel link hose, 1 1/4".

For connecting two rainwater barrels. UV-resistant plastic spiral hose, length 42 cm (12.5 in.).

15804

Connecting parts for rainwater barrels

Item No.

● Tank connector, 1 1/4", for connecting the hose directly to the barrel.

Straight
90° angle

15805

15806

● Hose coupling, for connection of two hoses.

15807

● Tank connector, 1 1/4",

suitable for tank wall thickness of at least 7 mm.

For use with straight or angled adapters.

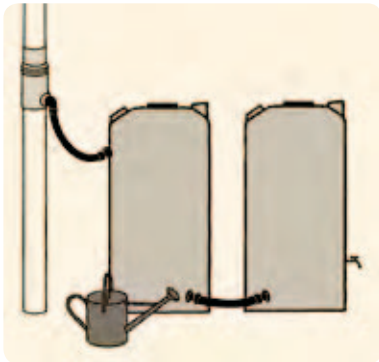
15808

● Adapters 1 1/4" for tank connector 15808.

Straight
90° angle

15809

15810



15803



15804



15805



15806



15807



15808



15809



15810

Garden rainwater set

consists of:

- Stabilix garden rainwater barrel
- Garden rainwater collector
GRS DN 100 VA
Item No. 15711
- Rainwater barrel connecting hose
Item No. 15803
- Tap
ZH 0402

Set price

GT 5300



Beta 1200

Beta 1000



with direct suction

The floating suction filter is ideal for use with the Beta pump



Floating fine suction filter SAFF

A submersible pump for pumping clean water for garden and landscaping applications. Normal priming, multi-stage submersible pressure pump **with integrated, intelligent control system** – a sensor monitors water requirements, controls the pump electronically and provides dry run protection. Alternative models with 1" nozzle or 1 1/4" (inside thread) suction inlet for connecting floating suction filters.

With 3 m (9.8 ft.) lifting strap and 15 m (49.2 ft.) connecting cable.

Beta	Maximum delivery rate	Maximum delivery head	Connection suction end	Connection discharge end
1000	95 l/min.	36.0 m (118.1 ft.)	Direct suction	1" inside thread/ UA*
1000T	95 l/min.	36.0 m (118.1 ft.)	1" nozzle	1" inside thread/ UA*
1000S	95 l/min.	36.0 m (118.1 ft.)	1" inside thread	1" inside thread/ UA*
1000X	95 l/min.	36.0 m (118.1 ft.)	1 1/4" inside thread	1" inside thread/ UA*
1200	95 l/min.	48.0 m (157.5 ft.)	Direct suction	1" inside thread/ UA*
1200T	95 l/min.	48.0 m (157.5 ft.)	1" nozzle	1" inside thread/ UA*
1200S	95 l/min.	48.0 m (157.5 ft.)	1" inside thread	1" inside thread/ UA*
1200X	95 l/min.	48.0 m (157.5 ft.)	1 1/4" inside thread	1" inside thread/ UA*

*UA = Universal connection (1" outside thread, 3/4" outside thread, nozzle 19 mm/0.75 in.)

Submersible garden pumps

	Item No.
● Beta 1000	GP 5010
● Beta 1000T	GP 5050
● Beta 1000S	GP 5040
● Beta 1000X	GP 5055
● Beta 1200	GP 6010
● Beta 1200T	GP 6050
● Beta 1200S	GP 6040
● Beta 1200X	GP 6055

► **Accessories:** For suction connections, see page 51 and ff., pressure hoses see page 51 and fittings/spare parts see pages 58-60



Beta 1000X/1200X
With 1 1/4" connection (model X)
or Beta 1000S/1200S
1" connection (model S)
for the connection of a
floating suction filter



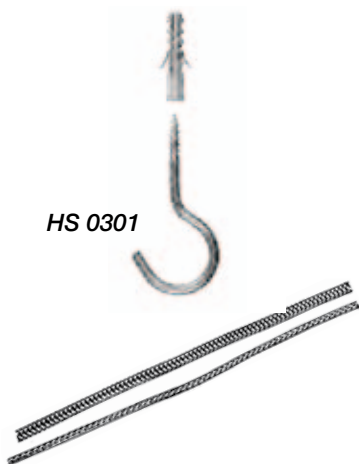
Beta 1000T/1200T
Submersible garden pump
with 1" nozzle for
the connection of a
floating suction filter

Set with floating fine suction filter SAFF

	Item No.
● Set for submersible pumps with 1" nozzle SAFF 1", high-flexibility hose 1"	SS 9935
● Set for submersible pumps with 1 1/4" inside thread connector SAFF 1", high-flexibility hose 1", with screw connection	SS 9931
● Set for submersible pumps with 1 1/4" inside thread connector SAFF 1 1/4", suction hose 1 1/4", with screw connection	SS 9932

The floating suction filters are also available as floating coarse suction filters SAGF, see pages 36-39

HS 0301



Hook with screw thread

Item No.

- Stainless-steel hook, plastic expansion dowel.
To fix pump lifting straps in concrete or plastic storage tanks.

M6 hook HS 0301

Carrying and lifting strap

Item No.

- Polypropylene strap, dia. 5 and 8 mm, for attachment to submersible pumps and floating filters. Rot-proof.

5 mm (0.2 in.) diameter, *per m* TS 3001

8 mm (0.3 in.) diameter, *per m* TS 3002

► *Can be cut to required length*

Spring safety hook

Item No.

- Stainless-steel spring safety hook,
6 x 60 mm (0.2 x 2.4 in.)

KB 0300

Hose connectors

Item No.

- 2-part brass hose connector, flat sealing

1" nozzle, 1 1/4" union nut ZV 0414

1" nozzle, 1" union nut ZV 0462

1 1/4" nozzle, 1 1/4" union nut ZV 0463

1 1/2" nozzle, 1 1/2" union nut ZV 0464

2" nozzle, 2" union nut ZV 0465

Hose nozzles

Item No.

- 1-part brass hose nozzle, with hexagon flange

1/2" nozzle, 1/2" outside thread ZV 0431

3/4" nozzle, 3/4" outside thread ZV 0432

1" nozzle, 1" outside thread ZV 0433

1" nozzle, 1 1/4" outside thread ZV 0415

1 1/4" nozzle, 1 1/4" outside thread ZV 0434

1 1/2" nozzle, 1 1/2" outside thread ZV 0435

2" nozzle, 2" outside thread ZV 0436

Nipples

Item No.

- Brass double nipple, 2 x outside threads, with hexagon flange

1/2" ZN 0410

3/4" ZN 0409

1" ZN 0402

1 1/4" ZN 0401

- Brass reducing nipple, 2 x outside threads, with hexagon flange

1/2", 3/4" ZN 0405

3/4", 1" ZN 0404

1", 1 1/4" ZN 0403

- Brass reducing nipple, 1 x inside thread, 1 x outside thread
with hexagon flange

1/2" inside thread, 3/4" outside thread ZN 0408

3/4" inside thread, 1" outside thread ZN 0407

1" inside thread, 1 1/4" outside thread ZN 0406

1" (1 inch) = 25.4 mm



ZV 04 51

ZV 04 52



Standpipe connectors

Item No.

- 3-part brass connector with outside thread, flat sealing, 1" nozzle, 1" outside thread
- 3-part brass connector with inside thread, flat sealing, 1" nozzle, 1" inside thread

ZV 04 51

ZV 04 52

Hose clamps

Item No.

- Stainless-steel hose clamps, clamp width 12 mm (0.5 in.).

Inch Clamping range

1/2" 16 – 22 mm (0.6 – 0.9 in.)

SS 03 01

3/4" 22 – 30 mm (0.9 – 1.2 in.)

SS 03 02

1" 30 – 40 mm (1.2 – 1.6 in.)

SS 03 03

1 1/4" 35 – 50 mm (1.4 – 1.9 in.)

SS 03 04

1 1/2" 45 – 60 mm (1.8 – 2.4 in.)

SS 03 05

2" 55 – 70 mm (2.2 – 2,8 in.)

SS 03 06

Drain tap

Item No.

- Brass drain tap with hose nozzle, union nut and removable square spanner.

1/2" tap

ZA 04 01

3/4" tap

ZA 04 02



Ball valves/dirt traps

Item No.

- Brass full-bore ball valve, 1/4" drain valve and extra 1/4" connection for pressure gauge. Aluminium lever.

3/4" inside thread

ZK 04 02

1" inside thread

ZK 04 03

- Brass full-bore ball valve. Aluminium lever.

3/4" inside thread

ZK 04 12

1" inside thread

ZK 04 13

- Brass full-bore ball valve with dirt trap, stainless-steel strainer, mesh size 0.65 mm (0.03 in.), aluminium lever.

1/2" inside thread

ZK 04 21

3/4" inside thread

ZK 04 22

1" inside thread

ZK 04 23



Solenoid valve

Item No.

- Brass solenoid valve, forced servo membrane control valve, operates without pressure difference. 230 V, 1.50 m (5 ft.) connecting cable, electric plug.

1/2" inside thread Nominal size 13 mm

MV 04 01

3/4" inside thread Nominal size 20 mm

MV 04 02

1" inside thread Nominal size 20 mm

MV 04 03



Fittings, spare parts



Pressure gauge

Item No.

- Pressure gauge, 0 – 10 bar (0 - 145 psi), 63 mm (2.5 in.) diameter, ¼" brass connection at rear. For connection to ball valves ZK 04 02, ZK 04 03.

ZZ 99 02



Water meter

Item No.

- Surface-mounted water meter, brass housing with 2 x 1" outside threads, counter module with transparent cover, rotatable through 360°, for horizontal or vertical installation. Officially approved and calibrated.

WA 98 00

- Connection for water meter, brass screw connectors, 1" union nut, ¾" outside thread.

WA 98 01

- Connection for water meter, red brass screw connector, 1" union nut, ½" inside thread.

WA 98 02

Cable coupling sets



Cable coupling set IP 68

Cable coupling sets for water-pressure-tight connection of flexible electric cables in rainwater storage tanks, e.g. for submersible pump installations.

► *Degree of protection IP 68 for long-term submersed application.*

Cable coupling sets IP 68

Item No.

- Cable coupling set with electric plug and coupling, each with sealed cover

KV 30 01



Cable coupling set (5-pin)

- Cable coupling set (5-pin) with terminal block

KV 30 00

System cable coupling set, waterproof cable coupling with two system plugs with screw connections and contact/safety coupler.

For connection of flexible electric cables in rainwater storage tanks, e.g. for submersible pump installations.

► *Degree of protection IP 67 for short-term submersed applications, e.g. suitable for installation in storage tank access shaft.*



System cable coupling set IP 67

Cable coupling set IP 67

Item No.

- System cable coupling set, IP 67

KV 30 20

Accessories

Item No.

- Flexible cable 3 x 1.5 mm², specifically for cable coupling sets, *can be cut to length on request, price per m*

KV 30 05



Label for utility room

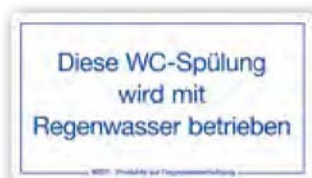
For proper labelling of rainwater pipework and system components (according to DIN 1988). To ensure clear identification and prevent cross connections during expansion, modification or repair work.

Label for utility room Item No.

- Made of laminated paper with water-based coating, white. For utility room. Size: W 208 x H 146 mm (8.19 x 5.75 in.)

10 units

ZS 4001



Label for toilet

Toilet label Item No.

- Self-adhesive label made of PE film, wipe-resistant laminated surface, transparent. For toilet flushing system. Size: W 100 x H 56 mm (3.94 x 2.20 in.)

10 units

ZS 1003



Water extraction point label

Label for extraction points Item No.

- Self-adhesive label made of PE film, weather-resistant laminated surface, white. For rainwater extraction points. Size: W 100 x H 56 mm (3.94 x 2.20 in.)

10 units

ZS 1013



Rainwater label

Rainwater label Item No.

- Self-adhesive, cast-coated paper label. Green/white For exposed pipes indoors. Size: W 68 x H 20 mm (2.68 x 0.79 in.)

10 units

ZS 4013



Underground pipework tape

Underground pipework tape Item No.

- Underground pipework tape made of weather-resistant PE film. Green/white, for marking underground pipes. Width: 40 mm (1.57 in.)

Roll: 250 m (820.25 ft.)

ZS 1021

Labelling set Item No.

- Labelling set (not illustrated), contains all the labels required for a household. Consists of:

01 unit	Utility room label
05 units	Toilet label
05 units	Extraction point label
10 units	Rainwater label
10 m (32.81 ft.)	Underground pipework tape

ZS 5000

Terms of sales, supply and payment

1. General

Our supplies are solely based on the following terms of sales, supply and payment. Additions of a buyer only become effective with our explicit agreement.

2. Offer, conclusion of a contract, writing

- 2.1. All terms of a contract have to be specified finally in writing. Verbal special agreements do not become part of the contract.
- 2.2. Our offers are always without obligation. After the buyer places the order, the contract will be reached by the supply and/or by our written confirmation of order, if desired by the buyer.

3. Prices, terms of delivery

- 3.1. Supplies for which not expressly fixed prices are agreed upon, are charged in Euros at the list price which is valid on the day of the delivery.
- 3.2. Our prices and the supplies are ex works Kefenrod plus the value added tax prescribed by law. Packing and transport costs and other additional expenses are charged to the buyer.

4. Terms of payment, compensation, retention

- 4.1. If not paid by cash on delivery, our invoices have to be paid within 30 days without any discount. If payment is received by WISY within 10 days of the invoice date, the buyer is entitled to deduct a 2% discount. Agreed cash discount is only permitted if the buyer has paid all overdue invoices or pays those at the same time.
- 4.2. If the fixed payment periods are exceeded, we are entitled to claim default interest starting from first day of delay at rate of 5% over the respective basic interest rate of the European central bank and expenses without proof. The proof of further damage remains reserved to us.
- 4.3. Bills of exchange are taken by us only with a special agreement. All expenses and other costs are charged to the buyer. The taking in of bills of exchange and cheques takes place always only in execution.
- 4.4. If a substantial degradation of the financial circumstances of the buyer happens, we are entitled to refuse further supplies until all of our claims whether due or not, are paid or security for them is given.
- 4.5. If a substantial degradation of the financial circumstances of the buyer happens, we are entitled to quit all credits of goods and require the immediate payment of all unpaid goods deliveries. The same is valid if the buyer stops his payments, moves for a judicial agreement, files for bankruptcy proceedings, or if he asks for an agreement out of court. The same is valid if the buyer stops his payments, moves for a judicial agreement, files for bankruptcy proceedings, or if he asks for an agreement out of court.
- 4.6. The buyer can charge or withhold payments only on undisputed or juridical stated demands. In case of the refusal of payments the demand must be based on the same contractual relation.

5. Delivery and delivery times

- 5.1. Periods and dates for delivery are only approximate. We try to deliver as punctually as possible. No claim for damages is entitled to the buyer because of late supply. The execution of delivery presupposes the punctual issue of all necessary permissions and releases as well as the punctual receipt of all documents to be supplied by the buyer. If these conditions are not fulfilled without justifiable reasons, periods and dates extend accordingly.
- 5.2. The period and/or the date are considered set if the shipment is delivered to the dispatch within the agreed period and/or to the agreed date. If dispatching is delayed for reasons of the buyer's responsibility, the period is considered set if we announced the shipment is ready for delivery to the buyer within the agreed period.
- 5.3. If the non-compliance of one period or date is due to force majeure or to other unforeseeable obstacles concerning our factory, which are not justifiable from our side or which took place and/or we received knowledge of the situation after the contract conclusion, then the period and/or the date extend appropriately. This is valid also in cases of unforeseeable events, which have an effect on the enterprises of our pre-suppliers and which neither of them nor from us has to be justified.
- 5.4. If for reasons, which are not due to our responsibility, the delivery does not take place in time or the execution of the delivery is interrupted, disturbed or made more difficult, we can demand replacement of our costs which may result from this.
- 5.5. Partial deliveries are permissible if they are not expressly contradicted.

6. Guarantee

- 6.1. We guarantee that our deliveries are faultless at the time the transition of the risk in the sense of the legal requirements.
- 6.2. The rebuke of defect prescribed due to §§ 377 and 378 HGB (duty for investigation and rebuke) is to report in writing immediately, at the latest within 10 days after receipt of the goods at the place of destination.
- 6.3. In case of a rebuke of defect reported in time or a complaint and an entitled protest the defect products or not as agreed delivered commodities are taken back and replaced by perfect commodities at our expense or, due to our choice, the defects are repaired at our expense.
- 6.4. In case of absence of an assured characteristic the claim for damages is limited on the commodity value, unless rough fault or intent is given.
- 6.5. Further claims of guarantee in the sense of the legal requirements are excluded. In the context of the warranty in particular any costs of freight, packing and/or of the installation of the delivered articles are charged to the buyer.
- 6.6. Goods which are returned for reasons for which WISY bears no responsibility can be accepted after inspection of the returned goods only if the products are unused and are in a visually and technically perfect condition. WISY will always charge 30% of the invoice amount to cover the costs incurred in receiving returned goods.

7. Retention of title

We maintain possession of the sold goods (retention commodities) until complete payment is received, including future demands and additional expenses incurred from the current business relation with the buyer.

The buyer is authorized to resell and/or to process the retention commodities following proper business guidelines. For security purposes, the claims against others as a result of reselling are handed over to us by the buyer in total or at the height of the share of our co-ownership. For security purposes - in case of a delay of payment, a termination of payment, a judicial agreement or bankruptcy proceedings - claims against others from the resale at the height of the original invoice amounts are handed over to us, without demand for a special agreement in individual cases.

8. Folders, designs, models

- 8.1. The reproduction of our folders and designs as well as the rebuilding of our models, also partially, is only permitted with our written permission. For designs, models and other documents, excluded folders, we reserve ourselves the property and copyright. The data in the folders, designs and models concerning performances, load capacities, dimensions, weights and similar data are noncommittal approximate values. We reserve ourselves modifications in measurement and construction due to further technical development.
- 8.2. On the date of publication of the valid price list, all previous price lists are fully superseded and made invalid with respect to their pricing, technical descriptions, explanations and quantified data. Only the currently valid price list is legally valid with respect to the price list contents stated above.

9. Place of delivery, area of jurisdiction

- 9.1. The international competence of the German courts is agreed. Place of delivery is Kefenrod, place of jurisdiction is Friedberg. We reserve ourselves however the right to file a suit at the place of the buyer.
- 9.2. It is valid per the right of the Federal Republic of Germany.

10. Final clauses

- 10.1. In case of legal inefficacy of individual points, the contract remains obligatory in its remaining parts. Any ineffective regulation has to be replaced by new regulations, which join the desired economic success as good as possible.
- 10.2. All contractual agreements require writing. Confirmed correspondence is sufficient.
- 10.3. In case of doubt German Original Text shall prevail.

January 1, 2014

Norbert Winkler,
Founder of
WISY AG



The founder of WISY AG, Norbert Winkler, passed away shortly before the company celebrated its 25th anniversary.

He died on December 28, 2013 at the age of 86 at his home in Kefenrod-Burgbracht.

We would like to take this opportunity to express our gratitude to the man who worked tirelessly throughout his life to build a better and fairer world.



1963: Winkler participates in a Peace Demonstration. „Instead of Nuclear Weapons give Bread to the World“.



It was not until he reached retirement age that he founded the WISY AG and succeeded in ensuring that rainwater harvesting is now an accepted feature of building services.

Products that he developed are now in use everywhere in the world.

WISY AG

Building Services Systems, Filter Technology

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Internet www.wisy.de

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Telephone (++49) 60 54 - 91 21-78
(++49) 60 54 - 91 21-77

**For up-to-date information
about rainwater harvesting
and all our products,
please visit: www.wisy.de**

**You can also download
specification texts
easily from:
service.wisy.de**

**Use our rainwater
storage tank to advertise
your company!**

**We can attach a sticker with your
company logo to the WISY rainwater
storage tank.**

